

Vanguard Funds

Supplement Dated July 23, 2021, to the Statement of Additional Information

The boards of trustees of the Vanguard funds (the “Boards”) have elected David Thomas as a trustee of the Boards effective July 22, 2021.

Statement of Additional Information Text Changes

In the **Management of the Fund(s)** section under Officers and Trustees, Dr. Thomas is added to the table as follows:

Name, Year of Birth	Position(s) Held With Funds	Vanguard Funds’ Trustee/ Officer Since	Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience	Number of Vanguard Funds Overseen by Trustee/Officer
Independent Trustees				
David Thomas (1956)	Trustee	July 2021	President of Morehouse College (2018 – present). Professor of Business Administration Emeritus at Harvard University (2017 – 2018) and Dean (2011-2016) and Professor of Management at Georgetown University, McDonough School of Business (2016 – 2017). Director of DTE Energy Company (2013 – present). Trustee of Common Fund (2019 – present).	212

Vanguard World Fund

Supplement Dated July 19, 2021, to the Statement of Additional Information Dated December 22, 2020

Important Changes to Vanguard U.S. Sector Index Funds

Vanguard Consumer Discretionary Index Fund, and Vanguard Consumer Staples Index Fund

Effective immediately, Nick Birkett has been named as a co-portfolio manager of Vanguard Consumer Discretionary Index Fund, and Vanguard Consumer Staples Index Fund. He replaces Michael A. Johnson, who had previously co-managed the Funds, and joins Awais Khan, who will continue to co-manage the Funds. The Funds' investment objectives, strategies, and policies remain unchanged.

Vanguard Information Technology Index Fund

Effective immediately, Nick Birkett has been named as a co-portfolio manager of Vanguard Information Technology Index Fund. He replaces Michael A. Johnson, who had previously co-managed the Fund, and joins Walter Nejman, who will continue to co-manage the Fund. The Fund's investment objective, strategies, and policies remain unchanged.

Vanguard Utilities Index Fund

Effective immediately, Walter Nejman has been named as a co-portfolio manager of Vanguard Utilities Index Fund. He replaces Michael A. Johnson, who had previously co-managed the Fund, and joins Awais Khan, who will continue to co-manage the Fund. The Fund's investment objective, strategies, and policies remain unchanged.

Important Changes to Vanguard Mega Cap Funds

Vanguard Mega Cap Index Fund, Vanguard Mega Cap Growth Index Fund, and Vanguard Mega Cap Value Index Fund

Effective immediately, Michelle Louie has been named as a co-portfolio manager of Vanguard Mega Cap Index Fund, Vanguard Mega Cap Growth Index Fund, and Vanguard Mega Cap Value Index Fund. She replaces Michael A. Johnson, who had previously co-managed the Funds, and joins Gerard C. O'Reilly, who will continue to co-manage the Funds. The Funds' investment objectives, strategies, and policies remain unchanged.

Statement of Additional Information Text Changes

In the **Investment Advisory and Other Services** section, the following text and table replace those under the sub-heading "**1. Other Accounts Managed**" on page B-75:

The following table provides information relating to the other accounts managed by the portfolio managers of the Funds as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Joshua Barrickman	Registered investment companies ¹	22	\$ 978B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Nick Birkett ²	Registered investment companies ³	10	\$96.1B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
William Coleman	Registered investment companies ⁴	54	\$ 162B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	1	\$ 8.6B	0	\$0

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Gerard O'Reilly	Registered investment companies ⁵	18	\$ 1.6T	0	\$0
	Other pooled investment vehicles	1	\$403M	0	\$0
	Other accounts	0	\$ 0	0	\$0
Christine D. Franquin	Registered investment companies ⁶	11	\$ 632B	0	\$0
	Other pooled investment vehicles	1	\$11.1B	0	\$0
	Other accounts	1	\$ 6.6B	0	\$0
Scott E. Geiger	Registered investment companies ⁶	2	\$22.1B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Awais Khan	Registered investment companies ⁷	8	\$ 26B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	2	\$ 8.6B	0	\$0
Michelle Louie ⁸	Registered investment companies ⁹	13	\$ 1.1T	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Walter Nejman ¹⁰	Registered investment companies ¹¹	54	\$ 4.2T	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Cesar Orosco ¹²	Registered investment companies ¹³	7	\$ 74B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0

1 Includes Vanguard Extended Duration Treasury Index Fund which held assets of \$3.4 billion as of August 31, 2020.

2 Mr. Birkett began co-managing Vanguard Consumer Discretionary Index Fund, Consumer Staples Index Fund, and Information Technology Index Fund on July 19, 2021.

3 Information provided as of May 31, 2021, and includes Vanguard Consumer Discretionary Index Fund, Consumer Staples Index Fund, and Information Technology Index Fund which collectively held assets of \$63.2 billion as of May 31, 2021.

4 Includes Vanguard FTSE Social Index Fund, ESG U.S. Stock ETF, Energy Index Fund, Financials Index Fund, and Materials Index Fund which collectively held assets of \$24.6 billion as of August 31, 2020.

5 Includes Vanguard FTSE Social Index Fund, Mega Cap Index Fund, Mega Cap Growth Index Fund, and Mega Cap Value Index Fund which collectively held assets of \$25.9 billion as of August 31, 2020.

6 Includes Vanguard ESG International Stock ETF which held assets of \$1.2 billion as of August 31, 2020.

7 Includes Vanguard Communication Services Index Fund, Consumer Discretionary Index Fund, Consumer Staples Index Fund, Energy Index Fund, and Utilities Index Fund which collectively held assets of \$22.4 billion as of August 31, 2020.

8 Ms. Louie began co-managing Vanguard Mega Cap Index Fund, Mega Cap Growth Index Fund, and Mega Cap Value Index Fund on July 19, 2021.

9 Information provided as of May 31, 2021, and includes Vanguard Financials Index Fund, Health Care Index Fund, Industrials Index Fund, Materials Index Fund, Mega Cap Index Fund, Mega Cap Growth Index Fund, and Mega Cap Value Index Fund which collectively held assets of \$59.2 billion as of May 31, 2021.

10 Mr. Nejman began co-managing Vanguard Utilities Index Fund on July 19, 2021.

11 Information provided as of May 31, 2021, and includes Vanguard Health Care Index Fund, Industrials Index Fund, Information Technology Index Fund, Communication Services Index Fund, and Utilities Index Fund which collectively held assets of \$83.4 billion as of May 31, 2021.

12 Mr. Orosco began co-managing Vanguard U.S. Growth Fund on February 26, 2021.

13 Information provided as of October 31, 2020, and includes Vanguard U.S. Growth Fund which held assets of \$37 billion as of October 31, 2020.

Within the same section, the following text replaces similar text under the sub-heading “**4. Ownership of Securities**” on page B-76:

As of August 31, 2020, Mr. Khan owned shares of Vanguard Energy Index Fund within the \$100,001–\$500,000 range. As of the same date, none of Mr. Barrickman, Mr. Coleman, Mr. O'Reilly, Ms. Franquin, or Mr. Geiger owned any shares of the Funds they managed.

As of October 31, 2020, Mr. Orosco did not own shares of Vanguard U.S. Growth Fund.

As of May 31, 2021, none of Mr. Birkett, Ms. Louie, or Mr. Nejman owned any shares of the Funds they managed.



Vanguard World Fund

Supplement Dated July 2, 2021, to the Statement of Additional Information Dated December 22, 2020

Important Changes to Vanguard U.S. Growth Fund

As previously announced, effective at the close of business on July 2, 2021, James P. Stetler will retire from Vanguard and will no longer serve as a co-portfolio manager of Vanguard's portion of Vanguard U.S. Growth Fund (the Fund). Accordingly, all references to Mr. Stetler in the Statement of Additional Information will be deleted in their entirety after that date.

Following Mr. Stetler's retirement, Binbin Guo and Cesar Orosco will remain as the portfolio managers of Vanguard's portion of the Fund. The Fund's investment objective, strategies, and policies will remain unchanged.

Additionally, effective September 2021, Binbin Guo will retire from Vanguard and will no longer serve as a co-portfolio manager of Vanguard's portion of the Fund. Following Mr. Guo's retirement, Cesar Orosco will remain as the sole portfolio manager of Vanguard's portion of the Fund, and the Fund's investment objective, strategies, and policies will remain unchanged.



Vanguard World Fund

Supplement Dated July 1, 2021, to the Statement of Additional Information Dated December 22, 2020

Important Change to Vanguard Global Wellesley[®] Income Fund

Effective immediately, Michael E. Stack has retired from Wellington Management Company LLP and no longer serves as a portfolio manager for Vanguard Global Wellesley Income Fund. Loren L. Moran and Andre J. Desautels remain as the portfolio managers of the Fund.

All references to Mr. Stack and corresponding disclosure related to Mr. Stack in the Fund's Statement of Additional Information are hereby deleted. The Fund's investment objective, strategies, and policies remain unchanged.



Vanguard World Fund

Supplement Dated July 1, 2021, to the Statement of Additional Information Dated December 22, 2020

Important Change to Vanguard Global Wellington™ Fund

Effective immediately, Michael E. Stack has retired from Wellington Management Company LLP and no longer serves as a portfolio manager for Vanguard Global Wellington Fund. Loren L. Moran and Nataliya Kofman remain as the portfolio managers of the Fund.

All references to Mr. Stack and corresponding disclosure related to Mr. Stack in the Statement of Additional Information are hereby deleted. The Fund's investment objective, strategies, and policies remain unchanged.

Vanguard World Fund

Supplement Dated March 1, 2021, to the Statement of Additional Information Dated December 22, 2020

Restructuring of the Investment Advisory Team for Vanguard U.S. Growth Fund

The Board of Trustees of Vanguard World Fund, on behalf of Vanguard U.S. Growth Fund (the Fund), has approved a restructuring of the Fund's investment advisory team, removing Jackson Square Partners, LLC (Jackson Square) as an investment advisor to the Fund. All references to Jackson Square and all other details and descriptions regarding Jackson Square's management of certain assets of the Fund in the Statement of Additional Information are removed in their entirety. The Fund's investment objective, principal investment strategies, and policies remain unchanged.

Statement of Additional Information Text Changes

In the **Investment Advisory and Other Services** section, the following is added to the introductory text on page B-61:

Jackson Square Partners, LLC provided investment advisory services for a portion of Vanguard U.S. Growth Fund from 2010 until March 2021.

Vanguard World Fund

Supplement Dated February 26, 2021, to the Statement of Additional Information Dated December 22, 2020

Important Changes to Vanguard U.S. Growth Fund

Effective immediately, Cesar Orosco will be added as a co-portfolio manager of Vanguard’s portion of Vanguard U.S. Growth Fund (the Fund). James P. Stetler will retire from Vanguard in July 2021 and will no longer serve as a co-portfolio manager for Vanguard’s portion of the Fund. The Fund’s investment objective, strategies, and policies remain unchanged.

Statement of Additional Information Text Changes

In the **Investment Advisory and Other Services** section, the following text and table are added under the sub-heading “**1. Other Accounts Managed**” on page B-69:

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Cesar Orosco ¹	Registered investment companies	7	\$74B ²	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0

¹ Mr. Orosco began co-managing a portion of the Fund on February 26, 2021.

² Information provided as of October 31, 2020, and includes Vanguard U.S. Growth Fund, which held assets of \$37 billion as of October 31, 2020.

Within the same section, the following text is added under the sub-heading “**4. Ownership of Securities**” on page B-70:

As of October 31, 2020, Mr. Orosco did not own shares of Vanguard U.S. Growth Fund.

Vanguard World Fund

Supplement Dated January 26, 2021, to the Statement of Additional Information Dated December 22, 2020

Important changes to Vanguard U.S. Growth Fund

Shareholders of Vanguard U.S. Growth Fund (the Fund) have approved the Proposal to reclassify the diversification status of the Fund to nondiversified and eliminate a related fundamental policy, as stated in the Proxy Statement at the Joint Special Meeting of Shareholders held on January 22, 2021.

Statement of Additional Information Text Changes

Under **Description of the Trust**, the “Organization” section on page B-2 is restated as follows:

Organization

Vanguard World Fund was organized as Ivest Fund, a Massachusetts corporation, in 1959. It became a Maryland corporation in 1973, and was reorganized as a Delaware statutory trust in 1998. Prior to its reorganization as a Delaware statutory trust, the Trust was known as Vanguard World Fund, Inc. The Trust is registered with the United States Securities and Exchange Commission (SEC) under the Investment Company Act of 1940 (the 1940 Act) as an open-end management investment company. All Funds within the Trust, other than Vanguard Communication Services Index Fund, Vanguard Consumer Discretionary Index Fund, Vanguard Consumer Staples Index Fund, Vanguard Energy Index Fund, Vanguard Financials Index Fund, Vanguard Health Care Index Fund, Vanguard Industrials Index Fund, Vanguard Information Technology Index Fund, Vanguard Materials Index Fund, Vanguard Utilities Index Fund (together, Vanguard U.S. Sector Index Funds) and Vanguard U.S. Growth Fund, are classified as diversified within the meaning of the 1940 Act. Vanguard U.S. Sector Index Funds and Vanguard U.S. Growth Fund are classified as nondiversified within the meaning of the 1940 Act. Vanguard Mega Cap Growth Index Fund may become nondiversified solely as a result of a change in relative market capitalization or index weightings of one or more constituents of its target index.

Under **Fundamental Policies**, the “Diversification” section on page B-4 is restated as follows:

Diversification. With respect to 75% of its total assets, each Fund (other than Vanguard U.S. Sector Index Funds and Vanguard U.S. Growth Fund) may not (1) purchase more than 10% of the outstanding voting securities of any one issuer or (2) purchase securities of any issuer if, as a result, more than 5% of the Fund’s total assets would be invested in that issuer’s securities. This limitation does not apply to obligations of the U.S. government or its agencies or instrumentalities.

For Vanguard Mega Cap Growth Index Fund only, with respect to 75% of its total assets, the Fund may not: (1) purchase more than 10% of the outstanding voting securities of any one issuer; or (2) purchase securities of any issuer if, as a result, more than 5% of the Fund’s total assets would be invested in that issuer’s securities; except as may be necessary to approximate the composition of its target index. This limitation does not apply to obligations of the U.S. government or its agencies or instrumentalities.

PART B
VANGUARD® WORLD FUND
STATEMENT OF ADDITIONAL INFORMATION

December 22, 2020

This Statement of Additional Information is not a prospectus but should be read in conjunction with a Fund's current prospectus (dated December 22, 2020). To obtain, without charge, a prospectus or the most recent Annual Report to Shareholders, which contains the Fund's [financial statements](#) as hereby incorporated by reference, please contact The Vanguard Group, Inc. (Vanguard).

Phone: Investor Information Department at 800-662-7447

Online: vanguard.com

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DESCRIPTION OF THE TRUST

Vanguard World Fund (the Trust) currently offers the following funds and share classes (identified by ticker symbol):

Vanguard Fund²	Share Classes¹				
	Investor	Admiral	Institutional	Institutional Plus	ETF
Vanguard U.S. Growth Fund	VWUSX	VWUAX	—	—	—
Vanguard International Growth Fund	VWIGX	VWILX	—	—	—
Vanguard Extended Duration Treasury Index Fund	—	—	VEDTX	VEDIX	EDV
Vanguard FTSE Social Index Fund	VFTSX	VFTAX	VFTNX	—	—
Vanguard Communication Services Index Fund ³	—	VTCAX	—	—	VOX
Vanguard Consumer Discretionary Index Fund	—	VCDAX	—	—	VCR
Vanguard Consumer Staples Index Fund	—	VCSAX	—	—	VDC
Vanguard Energy Index Fund	—	VENAX	—	—	VDE
Vanguard Financials Index Fund	—	VFAIX	—	—	VFH
Vanguard Health Care Index Fund	—	VHCIX	—	—	VHT
Vanguard Industrials Index Fund	—	VINAX	—	—	VIS
Vanguard Information Technology Index Fund	—	VITAX	—	—	VGIT
Vanguard Materials Index Fund	—	VMIAX	—	—	VAW
Vanguard Utilities Index Fund	—	VUIAX	—	—	VPU
Vanguard Mega Cap Index Fund	—	—	VMCTX	—	MGC
Vanguard Mega Cap Value Index Fund	—	—	VMVLX	—	MGV
Vanguard Mega Cap Growth Index Fund	—	—	VMGAX	—	MGK
Vanguard Global Wellington™ Fund	VGWLX	VGWAX	—	—	—
Vanguard Global Wellesley® Income Fund	VGWIX	VGYAX	—	—	—
Vanguard ESG U.S. Stock ETF	—	—	—	—	ESGV
Vanguard ESG International Stock ETF	—	—	—	—	VSGX
Vanguard ESG U.S. Corporate Bond ETF	—	—	—	—	VCEB

¹ Individually, a class; collectively, the classes.

² Individually, a Fund; collectively, the Funds.

³ Prior to May 2, 2018, the Fund was named Vanguard Telecommunication Services Index Fund.

The Trust has the ability to offer additional funds or classes of shares. There is no limit on the number of full and fractional shares that may be issued for a single fund or class of shares.

Organization

Vanguard World Fund was organized as Ivest Fund, a Massachusetts corporation, in 1959. It became a Maryland corporation in 1973, and was reorganized as a Delaware statutory trust in 1998. Prior to its reorganization as a Delaware statutory trust, the Trust was known as Vanguard World Fund, Inc. The Trust is registered with the United States Securities and Exchange Commission (SEC) under the Investment Company Act of 1940 (the 1940 Act) as an open-end management investment company. All Funds within the Trust, other than Vanguard Communication Services Index Fund, Vanguard Consumer Discretionary Index Fund, Vanguard Consumer Staples Index Fund, Vanguard Energy Index Fund, Vanguard Financials Index Fund, Vanguard Health Care Index Fund, Vanguard Industrials Index Fund, Vanguard Information Technology Index Fund, Vanguard Materials Index Fund, and Vanguard Utilities Index Fund (together, Vanguard U.S. Sector Index Funds), are classified as diversified within the meaning of the 1940 Act. Vanguard U.S. Sector Index Funds are classified as nondiversified within the meaning of the 1940 Act. Vanguard Mega Cap Growth Index Fund may become nondiversified solely as a result of a change in relative market capitalization or index weightings of one or more constituents of its target index.

Service Providers

Custodians. Bank of New York Mellon, 240 Greenwich Street, New York, NY 10286 (for Vanguard International Growth Fund); JPMorgan Chase Bank, 383 Madison Avenue, New York, NY 10179 (for Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF, Vanguard ESG U.S. Corporate Bond ETF, Vanguard Extended Duration Treasury Index Fund, Vanguard Global Wellington Fund, and Vanguard Global Wellesley Income Fund); and State Street Bank and Trust Company, One Lincoln Street, Boston, MA 02111 (for Vanguard U.S. Growth Fund, Vanguard U.S. Sector Index Funds, Vanguard Mega Cap Index Funds, and Vanguard FTSE Social Index Fund), serve as the Funds' custodians. The custodians are responsible for maintaining the Funds' assets, keeping all necessary accounts and records of Fund assets, and appointing any foreign subcustodians or foreign securities depositories.

Independent Registered Public Accounting Firm. PricewaterhouseCoopers LLP, Two Commerce Square, Suite 1800, 2001 Market Street, Philadelphia, PA 19103-7042, serves as the Funds' independent registered public accounting firm. The independent registered public accounting firm audits the Funds' annual financial statements and provides other related services.

Transfer and Dividend-Paying Agent. The Funds' transfer agent and dividend-paying agent is Vanguard, P.O. Box 2600, Valley Forge, PA 19482.

Characteristics of the Funds' Shares

Restrictions on Holding or Disposing of Shares. There are no restrictions on the right of shareholders to retain or dispose of a Fund's shares, other than those described in the Fund's current prospectus and elsewhere in this Statement of Additional Information. Each Fund or class may be terminated by reorganization into another mutual fund or class or by liquidation and distribution of the assets of the Fund or class. Unless terminated by reorganization or liquidation, each Fund and share class will continue indefinitely.

Shareholder Liability. The Trust is organized under Delaware law, which provides that shareholders of a statutory trust are entitled to the same limitations of personal liability as shareholders of a corporation organized under Delaware law. This means that a shareholder of a Fund generally will not be personally liable for payment of the Fund's debts. Some state courts, however, may not apply Delaware law on this point. We believe that the possibility of such a situation arising is remote.

Dividend Rights. The shareholders of each class of a Fund are entitled to receive any dividends or other distributions declared by the Fund for each such class. No shares of a Fund have priority or preference over any other shares of the Fund with respect to distributions. Distributions will be made from the assets of the Fund and will be paid ratably to all shareholders of a particular class according to the number of shares of the class held by shareholders on the record date. The amount of dividends per share may vary between separate share classes of the Fund based upon differences in the net asset values of the different classes and differences in the way that expenses are allocated between share classes pursuant to a multiple class plan approved by the Fund's board of trustees.

Voting Rights. Shareholders are entitled to vote on a matter if (1) the matter concerns an amendment to the Declaration of Trust that would adversely affect to a material degree the rights and preferences of the shares of a Fund or any class; (2) the trustees determine that it is necessary or desirable to obtain a shareholder vote; (3) a merger or consolidation, share conversion, share exchange, or sale of assets is proposed and a shareholder vote is required by the 1940 Act to approve the transaction; or (4) a shareholder vote is required under the 1940 Act. The 1940 Act requires a shareholder vote under various circumstances, including to elect or remove trustees upon the written request of shareholders representing 10% or more of a Fund's net assets, to change any fundamental policy of a Fund (please see **Fundamental Policies**), and to enter into certain merger transactions. Unless otherwise required by applicable law, shareholders of a Fund receive one vote for each dollar of net asset value owned on the record date and a fractional vote for each fractional dollar of net asset value owned on the record date. However, only the shares of the Fund or the class affected by a particular matter are entitled to vote on that matter. In addition, each class has exclusive voting rights on any matter submitted to shareholders that relates solely to that class, and each class has separate voting rights on any matter submitted to shareholders in which the interests of one class differ from the interests of another. Voting rights are noncumulative and cannot be modified without a majority vote by the shareholders.

Liquidation Rights. In the event that a Fund is liquidated, shareholders will be entitled to receive a pro rata share of the Fund's net assets. In the event that a class of shares is liquidated, shareholders of that class will be entitled to receive a pro rata share of the Fund's net assets that are allocated to that class. Shareholders may receive cash, securities, or a combination of the two.

Preemptive Rights. There are no preemptive rights associated with the Funds' shares.

Conversion Rights. Shareholders of each Fund (except those of Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF and Vanguard ESG U.S. Corporate Bond ETF) may convert their shares to another class of shares of the same Fund upon the satisfaction of any then-applicable eligibility requirements, as described in the Fund's current prospectus. ETF Shares cannot be converted into conventional shares of a fund by a shareholder. For additional information about the conversion rights applicable to ETF Shares, please see **Information About the ETF Share Class**. There are no conversion rights associated with Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF and Vanguard ESG U.S. Corporate Bond ETF.

Redemption Provisions. Each Fund's redemption provisions are described in its current prospectus and elsewhere in this Statement of Additional Information.

Sinking Fund Provisions. The Funds have no sinking fund provisions.

Calls or Assessment. Each Fund's shares, when issued, are fully paid and non-assessable.

Tax Status of the Funds

Each Fund expects to qualify each year for treatment as a "regulated investment company" under Subchapter M of the Internal Revenue Code of 1986, as amended (the IRC). This special tax status means that the Fund will not be liable for federal tax on income and capital gains distributed to shareholders. In order to preserve its tax status, each Fund must comply with certain requirements relating to the source of its income and the diversification of its assets. If a Fund fails to meet these requirements in any taxable year, the Fund will, in some cases, be able to cure such failure, including by paying a fund-level tax, paying interest, making additional distributions, and/or disposing of certain assets. If the Fund is ineligible to or otherwise does not cure such failure for any year, it will be subject to tax on its taxable income at corporate rates, and all distributions from earnings and profits, including any distributions of net tax-exempt income and net long-term capital gains, will be taxable to shareholders as ordinary income. In addition, a Fund could be required to recognize unrealized gains, pay substantial taxes and interest, and make substantial distributions before regaining its tax status as a regulated investment company.

Dividends received and distributed by each Fund on shares of stock of domestic corporations (excluding Real Estate Investment Trusts (REITs)) and certain foreign corporations generally may be eligible to be reported by the Fund, and treated by individual shareholders, as "qualified dividend income" taxed at long-term capital gain rates instead of at higher ordinary income tax rates. Individuals must satisfy holding period and other requirements in order to be eligible for such treatment. Also, distributions attributable to income earned on a Fund's securities lending transactions, including substitute dividend payments received by a Fund with respect to a security out on loan, will not be eligible for treatment as qualified dividend income.

Taxable ordinary dividends received and distributed by each Fund on its REIT holdings may be eligible to be reported by a Fund, and treated by individual shareholders, as “qualified REIT dividends” that are eligible for a 20% deduction on its federal income tax returns. Individuals must satisfy holding period and other requirements in order to be eligible for this deduction. A Fund’s ability to pass-through this deduction to Fund shareholders is based on preliminary IRS guidance and is subject to change. Shareholders should consult their own tax professionals concerning their eligibility for this deduction.

Dividends received and distributed by each Fund on shares of stock of domestic corporations (excluding REITs) may be eligible for the dividends-received deduction applicable to corporate shareholders. Corporations must satisfy certain requirements in order to claim the deduction. Also, distributions attributable to income earned on a Fund’s securities lending transactions, including substitute dividend payments received by a Fund with respect to a security out on loan, will not be eligible for the dividends-received deduction.

Each Fund may declare a capital gain dividend consisting of the excess (if any) of net realized long-term capital gains over net realized short-term capital losses. Net capital gains for a fiscal year are computed by taking into account any capital loss carryforwards of the Fund. For Fund fiscal years beginning on or after December 22, 2010, capital losses may be carried forward indefinitely and retain their character as either short-term or long-term. Under prior law, net capital losses could be carried forward for eight tax years and were treated as short-term capital losses. A Fund is required to use capital losses arising in fiscal years beginning on or after December 22, 2010, before using capital losses arising in fiscal years beginning prior to December 22, 2010.

FUNDAMENTAL POLICIES

Each Fund is subject to the following fundamental investment policies, which cannot be changed in any material way without the approval of the holders of a majority of the Fund’s shares. For these purposes, a “majority” of shares means shares representing the lesser of (1) 67% or more of the Fund’s net assets voted, so long as shares representing more than 50% of the Fund’s net assets are present or represented by proxy or (2) more than 50% of the Fund’s net assets.

Borrowing. Each Fund may borrow money only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

Commodities. Each Fund may invest in commodities only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

Diversification. With respect to 75% of its total assets, each Fund (other than Vanguard U.S. Sector Index Funds) may not (1) purchase more than 10% of the outstanding voting securities of any one issuer or (2) purchase securities of any issuer if, as a result, more than 5% of the Fund’s total assets would be invested in that issuer’s securities. This limitation does not apply to obligations of the U.S. government or its agencies or instrumentalities.

For Vanguard Mega Cap Growth Index Fund only, with respect to 75% of its total assets, the Fund may not: (1) purchase more than 10% of the outstanding voting securities of any one issuer; or (2) purchase securities of any issuer if, as a result, more than 5% of the Fund’s total assets would be invested in that issuer’s securities; except as may be necessary to approximate the composition of its target index. This limitation does not apply to obligations of the U.S. government or its agencies or instrumentalities.

Industry Concentration. For the FTSE Social Index, Extended Duration Treasury Index, Mega Cap Index, Mega Cap Value Index, and Mega Cap Growth Index Funds, and for the U.S. and International ESG ETFs: Each Fund will not concentrate its investments in the securities of issuers whose principal business activities are in the same industry or group of industries, except as may be necessary to approximate the composition of its target index.

For the U.S. Growth, International Growth, Global Wellington, and Global Wellesley Income Funds: Each Fund will not concentrate its investments in the securities of issuers whose principal business activities are in the same industry or group of industries.

For the U.S. Sector Index Funds: Each Fund will concentrate its investments in the securities of issuers whose principal business activities are in the industry or group of industries denoted by the Fund name.

Investment Objective. The investment objectives of the U.S. Growth, International Growth, and FTSE Social Index Funds may not be materially changed without a shareholder vote.

Loans. Each Fund may make loans to another person only as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

Real Estate. Each Fund may not invest directly in real estate unless it is acquired as a result of ownership of securities or other instruments. This restriction shall not prevent a Fund from investing in securities or other instruments (1) issued by companies that invest, deal, or otherwise engage in transactions in real estate or (2) backed or secured by real estate or interests in real estate.

Senior Securities. Each Fund may not issue senior securities except as permitted by the 1940 Act or other governing statute, by the Rules thereunder, or by the SEC or other regulatory agency with authority over the Fund.

Underwriting. Each Fund may not act as an underwriter of another issuer's securities, except to the extent that the Fund may be deemed to be an underwriter within the meaning of the Securities Act of 1933 (the 1933 Act), in connection with the purchase and sale of portfolio securities.

Compliance with the fundamental policies previously described is generally measured at the time the securities are purchased. Unless otherwise required by the 1940 Act (as is the case with borrowing), if a percentage restriction is adhered to at the time the investment is made, a later change in percentage resulting from a change in the market value of assets will not constitute a violation of such restriction. All fundamental policies must comply with applicable regulatory requirements. For more details, see **Investment Strategies, Risks, and Nonfundamental Policies**.

None of these policies prevents the Funds from having an ownership interest in Vanguard. As a part owner of Vanguard, each Fund may own securities issued by Vanguard, make loans to Vanguard, and contribute to Vanguard's costs or other financial requirements. See **Management of the Funds** for more information.

Shareholder approval will not be sought if Vanguard Mega Cap Growth Index Fund crosses from diversified to nondiversified status in order to approximate the composition of its target index.

INVESTMENT STRATEGIES, RISKS, AND NONFUNDAMENTAL POLICIES

Some of the investment strategies and policies described on the following pages and in each Fund's prospectus set forth percentage limitations on a Fund's investment in, or holdings of, certain securities or other assets. Unless otherwise required by law, compliance with these strategies and policies will be determined immediately after the acquisition of such securities or assets by the Fund. Subsequent changes in values, net assets, or other circumstances will not be considered when determining whether the investment complies with the Fund's investment strategies and policies.

The following investment strategies, risks, and policies supplement each Fund's investment strategies, risks, and policies set forth in the prospectus. With respect to the different investments discussed as follows, a Fund may acquire such investments to the extent consistent with its investment strategies and policies.

Asset-Backed Securities. Asset-backed securities represent a participation in, or are secured by and payable from, pools of underlying assets such as debt securities, bank loans, motor vehicle installment sales contracts, installment loan contracts, leases of various types of real and personal property, receivables from revolving credit (i.e., credit card) agreements, and other categories of receivables. These underlying assets are securitized through the use of trusts and special purpose entities. Payment of interest and repayment of principal on asset-backed securities may be largely dependent upon the cash flows generated by the underlying assets backing the securities and, in certain cases, may be supported by letters of credit, surety bonds, or other credit enhancements. The rate of principal payments on asset-backed securities is related to the rate of principal payments, including prepayments, on the underlying assets. The credit quality of asset-backed securities depends primarily on the quality of the underlying assets, the level of credit support, if any, provided for the securities, and the credit quality of the credit-support provider, if any. The value of asset-backed securities may be affected by the various factors described above and other factors, such as changes in interest rates, the availability of information concerning the pool and its structure, the creditworthiness of the servicing agent for the pool, the originator of the underlying assets, or the entities providing the credit enhancement.

Asset-backed securities are often subject to more rapid repayment than their stated maturity date would indicate, as a result of the pass-through of prepayments of principal on the underlying assets. Prepayments of principal by borrowers or foreclosure or other enforcement action by creditors shortens the term of the underlying assets. The occurrence of prepayments is a function of several factors, such as the level of interest rates, the general economic conditions, the location and age of the underlying obligations, and other social and demographic conditions. A fund's ability to maintain positions in asset-backed securities is affected by the reductions in the principal amount of the underlying assets

because of prepayments. A fund's ability to reinvest such prepayments of principal (as well as interest and other distributions and sale proceeds) at a comparable yield is subject to generally prevailing interest rates at that time. The value of asset-backed securities varies with changes in market interest rates generally and the differentials in yields among various kinds of U.S. government securities, mortgage-backed securities, and asset-backed securities. In periods of rising interest rates, the rate of prepayment tends to decrease, thereby lengthening the average life of the underlying securities. Conversely, in periods of falling interest rates, the rate of prepayment tends to increase, thereby shortening the average life of such assets. Because prepayments of principal generally occur when interest rates are declining, an investor, such as a fund, generally has to reinvest the proceeds of such prepayments at lower interest rates than those at which the assets were previously invested. Therefore, asset-backed securities have less potential for capital appreciation in periods of falling interest rates than other income-bearing securities of comparable maturity.

Because asset-backed securities generally do not have the benefit of a security interest in the underlying assets that is comparable to a mortgage, asset-backed securities present certain additional risks that are not present with mortgage-backed securities. For example, revolving credit receivables are generally unsecured and the debtors on such receivables are entitled to the protection of a number of state and federal consumer credit laws, many of which give debtors the right to set off certain amounts owed, thereby reducing the balance due. Automobile receivables generally are secured, but by automobiles rather than by real property. Most issuers of automobile receivables permit loan servicers to retain possession of the underlying assets. If the servicer of a pool of underlying assets sells them to another party, there is the risk that the purchaser could acquire an interest superior to that of holders of the asset-backed securities. In addition, because of the large number of vehicles involved in a typical issue of asset-backed securities and technical requirements under state law, the trustee for the holders of the automobile receivables may not have a proper security interest in the automobiles. Therefore, there is the possibility that recoveries on repossessed collateral may not be available to support payments on these securities. Asset-backed securities have been, and may continue to be, subject to greater liquidity risks when worldwide economic and liquidity conditions deteriorate. In addition, government actions and proposals that affect the terms of underlying home and consumer loans, thereby changing demand for products financed by those loans, as well as the inability of borrowers to refinance existing loans, have had and may continue to have a negative effect on the valuation and liquidity of asset-backed securities.

Borrowing. A fund's ability to borrow money is limited by its investment policies and limitations; by the 1940 Act; and by applicable exemptions, no-action letters, interpretations, and other pronouncements issued from time to time by the SEC and its staff or any other regulatory authority with jurisdiction. Under the 1940 Act, a fund is required to maintain continuous asset coverage (i.e., total assets including borrowings, less liabilities exclusive of borrowings) of 300% of the amount borrowed, with an exception for borrowings not in excess of 5% of the fund's total assets (at the time of borrowing) made for temporary or emergency purposes. Any borrowings for temporary purposes in excess of 5% of the fund's total assets must maintain continuous asset coverage. If the 300% asset coverage should decline as a result of market fluctuations or for other reasons, a fund may be required to sell some of its portfolio holdings within three days (excluding Sundays and holidays) to reduce the debt and restore the 300% asset coverage, even though it may be disadvantageous from an investment standpoint to sell securities at that time.

Borrowing will tend to exaggerate the effect on net asset value of any increase or decrease in the market value of a fund's portfolio. Money borrowed will be subject to interest costs that may or may not be recovered by earnings on the securities purchased with the proceeds of such borrowing. A fund also may be required to maintain minimum average balances in connection with a borrowing or to pay a commitment or other fee to maintain a line of credit; either of these requirements would increase the cost of borrowing over the stated interest rate.

The SEC takes the position that transactions that have a leveraging effect on the capital structure of a fund or are economically equivalent to borrowing can be viewed as constituting a form of borrowing by the fund for purposes of the 1940 Act. These transactions can include entering into reverse repurchase agreements; engaging in mortgage-dollar-roll transactions; selling securities short (other than short sales "against-the-box"); buying and selling certain derivatives (such as futures contracts); selling (or writing) put and call options; engaging in sale-buybacks; entering into firm-commitment and standby-commitment agreements; engaging in when-issued, delayed-delivery, or forward-commitment transactions; and participating in other similar trading practices. (Additional discussion about a number of these transactions can be found on the following pages.)

A borrowing transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund maintains an offsetting financial position; segregates liquid assets (with such liquidity determined by the advisor in accordance with procedures established by the board of trustees) equal (as determined on a daily mark-to-market basis) in value to the fund's

potential economic exposure under the borrowing transaction; or otherwise “covers” the transaction in accordance with applicable SEC guidance (collectively, “covers” the transaction). A fund may have to buy or sell a security at a disadvantageous time or price in order to cover a borrowing transaction. In addition, segregated assets may not be available to satisfy redemptions or to fulfill other obligations.

Common Stock. Common stock represents an equity or ownership interest in an issuer. Common stock typically entitles the owner to vote on the election of directors and other important matters, as well as to receive dividends on such stock. In the event an issuer is liquidated or declares bankruptcy, the claims of owners of bonds, other debt holders, and owners of preferred stock take precedence over the claims of those who own common stock.

Convertible Securities. Convertible securities are hybrid securities that combine the investment characteristics of bonds and common stocks. Convertible securities typically consist of debt securities or preferred stock that may be converted (on a voluntary or mandatory basis) within a specified period of time (normally for the entire life of the security) into a certain amount of common stock or other equity security of the same or a different issuer at a predetermined price. Convertible securities also include debt securities with warrants or common stock attached and derivatives combining the features of debt securities and equity securities. Other convertible securities with features and risks not specifically referred to herein may become available in the future. Convertible securities involve risks similar to those of both fixed income and equity securities. In a corporation’s capital structure, convertible securities are senior to common stock but are usually subordinated to senior debt obligations of the issuer.

The market value of a convertible security is a function of its “investment value” and its “conversion value.” A security’s “investment value” represents the value of the security without its conversion feature (i.e., a nonconvertible debt security). The investment value may be determined by reference to its credit quality and the current value of its yield to maturity or probable call date. At any given time, investment value is dependent upon such factors as the general level of interest rates, the yield of similar nonconvertible securities, the financial strength of the issuer, and the seniority of the security in the issuer’s capital structure. A security’s “conversion value” is determined by multiplying the number of shares the holder is entitled to receive upon conversion or exchange by the current price of the underlying security. If the conversion value of a convertible security is significantly below its investment value, the convertible security will trade like nonconvertible debt or preferred stock and its market value will not be influenced greatly by fluctuations in the market price of the underlying security. In that circumstance, the convertible security takes on the characteristics of a bond, and its price moves in the opposite direction from interest rates. Conversely, if the conversion value of a convertible security is near or above its investment value, the market value of the convertible security will be more heavily influenced by fluctuations in the market price of the underlying security. In that case, the convertible security’s price may be as volatile as that of common stock. Because both interest rates and market movements can influence its value, a convertible security generally is not as sensitive to interest rates as a similar debt security, nor is it as sensitive to changes in share price as its underlying equity security. Convertible securities are often rated below investment-grade or are not rated, and they are generally subject to a high degree of credit risk.

Although all markets are prone to change over time, the generally high rate at which convertible securities are retired (through mandatory or scheduled conversions by issuers or through voluntary redemptions by holders) and replaced with newly issued convertible securities may cause the convertible securities market to change more rapidly than other markets. For example, a concentration of available convertible securities in a few economic sectors could elevate the sensitivity of the convertible securities market to the volatility of the equity markets and to the specific risks of those sectors. Moreover, convertible securities with innovative structures, such as mandatory-conversion securities and equity-linked securities, have increased the sensitivity of the convertible securities market to the volatility of the equity markets and to the special risks of those innovations, which may include risks different from, and possibly greater than, those associated with traditional convertible securities. A convertible security may be subject to redemption at the option of the issuer at a price set in the governing instrument of the convertible security. If a convertible security held by a fund is subject to such redemption option and is called for redemption, the fund must allow the issuer to redeem the security, convert it into the underlying common stock, or sell the security to a third party.

Cybersecurity Risks. The increased use of technology to conduct business could subject a fund and its third-party service providers (including, but not limited to, investment advisors, transfer agents, and custodians) to risks associated with cybersecurity. In general, a cybersecurity incident can occur as a result of a deliberate attack designed to gain unauthorized access to digital systems. If the attack is successful, an unauthorized person or persons could misappropriate assets or sensitive information, corrupt data, or cause operational disruption. A cybersecurity incident could also occur unintentionally if, for example, an authorized person inadvertently released proprietary or confidential information. Vanguard has developed robust technological safeguards and business continuity plans to prevent, or reduce the impact of, potential cybersecurity incidents. Additionally, Vanguard has a process for assessing the

information security and/or cybersecurity programs implemented by a fund's third-party service providers, which helps minimize the risk of potential incidents that could impact a Vanguard fund or its shareholders. Despite these measures, a cybersecurity incident still has the potential to disrupt business operations, which could negatively impact a fund and/or its shareholders. Some examples of negative impacts that could occur as a result of a cybersecurity incident include, but are not limited to, the following: a fund may be unable to calculate its net asset value (NAV), a fund's shareholders may be unable to transact business, a fund may be unable to process transactions, or a fund may be unable to safeguard its data or the personal information of its shareholders.

Debt Securities. A debt security, sometimes called a fixed income security, consists of a certificate or other evidence of a debt (secured or unsecured) upon which the issuer of the debt security promises to pay the holder a fixed, variable, or floating rate of interest for a specified length of time and to repay the debt on the specified maturity date. Some debt securities, such as zero-coupon bonds, do not make regular interest payments but are issued at a discount to their principal or maturity value. Debt securities include a variety of fixed income obligations, including, but not limited to, corporate bonds, government securities, municipal securities, convertible securities, mortgage-backed securities, and asset-backed securities. Debt securities include investment-grade securities, non-investment-grade securities, and unrated securities. Debt securities are subject to a variety of risks, such as interest rate risk, income risk, call risk, prepayment risk, extension risk, inflation risk, credit risk, liquidity risk, coupon deferral risk, lower recovery value risk, and (in the case of foreign securities) country risk and currency risk. The reorganization of an issuer under the federal bankruptcy laws or an out-of-court restructuring of an issuer's capital structure may result in the issuer's debt securities being cancelled without repayment, repaid only in part, or repaid in part or in whole through an exchange thereof for any combination of cash, debt securities, convertible securities, equity securities, or other instruments or rights in respect to the same issuer or a related entity.

Debt Securities—Bank Obligations. Time deposits are non-negotiable deposits maintained in a banking institution for a specified period of time at a stated interest rate. Certificates of deposit are negotiable short-term obligations of commercial banks. Variable rate certificates of deposit have an interest rate that is periodically adjusted prior to their stated maturity based upon a specified market rate. As a result of these adjustments, the interest rate on these obligations may be increased or decreased periodically. Frequently, dealers selling variable rate certificates of deposit to a fund will agree to repurchase such instruments, at the fund's option, at par on or near the coupon dates. The dealers' obligations to repurchase these instruments are subject to conditions imposed by various dealers; such conditions typically are the continued credit standing of the issuer and the existence of reasonably orderly market conditions. A fund is also able to sell variable rate certificates of deposit on the secondary market. Variable rate certificates of deposit normally carry a higher interest rate than comparable fixed-rate certificates of deposit. A banker's acceptance is a time draft drawn on a commercial bank by a borrower usually in connection with an international commercial transaction (to finance the import, export, transfer, or storage of goods). The borrower is liable for payment, as is the bank, which unconditionally guarantees to pay the draft at its face amount on the maturity date. Most acceptances have maturities of 6 months or less and are traded in the secondary markets prior to maturity.

Debt Securities—Commercial Paper. Commercial paper refers to short-term, unsecured promissory notes issued by corporations to finance short-term credit needs. It is usually sold on a discount basis and has a maturity at the time of issuance not exceeding 9 months. High-quality commercial paper typically has the following characteristics: (1) liquidity ratios are adequate to meet cash requirements; (2) long-term senior debt is also high credit quality; (3) the issuer has access to at least two additional channels of borrowing; (4) basic earnings and cash flow have an upward trend with allowance made for unusual circumstances; (5) typically, the issuer's industry is well established and the issuer has a strong position within the industry; and (6) the reliability and quality of management are unquestioned. In assessing the credit quality of commercial paper issuers, the following factors may be considered: (1) evaluation of the management of the issuer, (2) economic evaluation of the issuer's industry or industries and the appraisal of speculative-type risks that may be inherent in certain areas, (3) evaluation of the issuer's products in relation to competition and customer acceptance, (4) liquidity, (5) amount and quality of long-term debt, (6) trend of earnings over a period of ten years, (7) financial strength of a parent company and the relationships that exist with the issuer, and (8) recognition by the management of obligations that may be present or may arise as a result of public-interest questions and preparations to meet such obligations. The short-term nature of a commercial paper investment makes it less susceptible to interest rate risk than longer-term fixed income securities because interest rate risk typically increases as maturity lengths increase. Additionally, an issuer may expect to repay commercial paper obligations at maturity from the proceeds of the issuance of new commercial paper. As a result, investment in commercial paper is subject to the risk the issuer cannot issue enough new commercial paper to satisfy its outstanding commercial paper payment obligations, also known as rollover risk. Commercial paper may suffer from reduced liquidity due to certain circumstances, in particular, during stressed markets. In addition, as with all fixed income securities, an issuer may default on its commercial paper obligation.

Variable-amount master-demand notes are demand obligations that permit the investment of fluctuating amounts at varying market rates of interest pursuant to an arrangement between the issuer and a commercial bank acting as agent for the payees of such notes, whereby both parties have the right to vary the amount of the outstanding indebtedness on the notes. Because variable-amount master-demand notes are direct lending arrangements between a lender and a borrower, it is not generally contemplated that such instruments will be traded, and there is no secondary market for these notes, although they are redeemable (and thus immediately repayable by the borrower) at face value, plus accrued interest, at any time. In connection with a fund's investment in variable-amount master-demand notes, Vanguard's investment management staff will monitor, on an ongoing basis, the earning power, cash flow, and other liquidity ratios of the issuer, along with the borrower's ability to pay principal and interest on demand.

Debt Securities—Emerging Market Risk. Investing in emerging market countries involves certain risks not typically associated with investing in the United States, and imposes risks greater than, or in addition to, risks of investing in more developed foreign countries. These risks include, but are not limited to, the following: nationalization or expropriation of assets or confiscatory taxation; greater social, economic, and political uncertainty and instability (including amplified risk of war and terrorism); more substantial government involvement in the economy; less government supervision and regulation of the securities markets and participants in those markets; controls on foreign investment and limitations on repatriation of invested capital; generally, smaller, less seasoned, and newly organized companies; the difference in, or lack of, auditing and financial reporting standards, which may result in unavailability of material information about issuers; difficulty in obtaining and/or enforcing a judgment in a court outside the United States; and greater price volatility, substantially less liquidity, and significantly smaller market capitalization of bond markets. Also, any change in the leadership or politics of emerging market countries, or the countries that exercise a significant influence over those countries, may halt the expansion of or reverse the liberalization of foreign investment policies now occurring and adversely affect existing investment opportunities. Furthermore, high rates of inflation and rapid fluctuations in inflation rates have had, and may continue to have, negative effects on the economies and bond markets of certain emerging market countries.

Debt Securities—Foreign Securities. The Global Wellington and Global Wellesley Income Funds invest a substantial portion of their assets in foreign debt securities. Typically, foreign debt securities are issued by entities organized, domiciled, or with a principal executive office outside the United States, such as foreign corporations and governments. Foreign debt securities may trade in U.S. or foreign securities markets. Investing in foreign debt securities involves certain special risk considerations that are not typically associated with investing in debt securities of U.S. companies or governments.

Because foreign issuers are not generally subject to uniform accounting, auditing, and financial reporting standards and practices comparable to those applicable to U.S. issuers, there may be less publicly available information about certain foreign issuers than about U.S. issuers. Evidence of securities ownership may be uncertain in many foreign countries. As a result, there are risks that could result in a loss to the fund, including, but not limited to, the risk that a fund's trade details could be incorrectly or fraudulently entered at the time of the transaction. Securities of foreign issuers are generally more volatile and less liquid than securities of comparable U.S. issuers, and foreign investments may be effected through structures that may be complex or confusing. In certain countries, there is less government supervision and regulation of bond markets, bond dealers, and bond issuers than in the United States. In addition, with respect to certain foreign countries, there is the possibility of expropriation or confiscatory taxation, political or social instability, war, terrorism, nationalization, limitations on the removal of funds or other assets, or diplomatic developments that could affect U.S. investments in those countries. Additionally, economic or other sanctions imposed on the United States by a foreign country, or imposed on a foreign country by the United States, could impair a fund's ability to buy, sell, hold, receive, deliver, or otherwise transact in certain investment securities. Sanctions could also affect the value and/or liquidity of a foreign security.

Although an advisor will endeavor to achieve the most favorable execution costs for a fund's portfolio transactions in foreign securities under the circumstances, mark-ups and other transaction costs are generally higher than those on U.S. securities. In addition, it is expected that the custodian arrangement expenses for a fund that invests primarily in foreign securities will be somewhat greater than the expenses for a fund that invests primarily in domestic securities. Certain foreign governments levy withholding or other taxes against dividend and interest income from or transactions in foreign securities. Although in some countries a portion of these taxes is recoverable by the fund, the nonrecovered portion of foreign withholding taxes will reduce the income received from such securities.

The value of the foreign securities held by a fund that are not U.S. dollar-denominated may be significantly affected by changes in currency exchange rates. The U.S. dollar value of a foreign security generally decreases when the value of the U.S. dollar rises against the foreign currency in which the security is denominated, and it tends to increase when

the value of the U.S. dollar falls against such currency. The Global Wellington and Global Wellesley Income Funds will attempt to hedge local currency risk, as discussed under the heading “*Foreign Securities—Foreign Currency Transactions.*” In addition, the value of fund assets may be affected by losses and other expenses incurred in converting between various currencies in order to purchase and sell foreign securities, as well as by currency restrictions, exchange control regulation, currency devaluations, and political and economic developments.

Debt Securities—Inflation-Indexed Securities. Inflation-indexed securities are debt securities, the principal value of which is periodically adjusted to reflect the rate of inflation as indicated by the Consumer Price Index (CPI). Inflation-indexed securities may be issued by the U.S. government, by agencies and instrumentalities of the U.S. government, and by corporations. Two structures are common. The U.S. Treasury and some other issuers use a structure that accrues inflation into the principal value of the bond. Most other issuers pay out the CPI accruals as part of a semiannual coupon payment.

The periodic adjustment of U.S. inflation-indexed securities is tied to the CPI, which is calculated monthly by the U.S. Bureau of Labor Statistics. The CPI is a measurement of changes in the cost of living, made up of components such as housing, food, transportation, and energy. Inflation-indexed securities issued by a foreign government are generally adjusted to reflect a comparable inflation index, calculated by that government. There can be no assurance that the CPI or any foreign inflation index will accurately measure the real rate of inflation in the prices of goods and services. Moreover, there can be no assurance that the rate of inflation in a foreign country will correlate to the rate of inflation in the United States.

Inflation—a general rise in prices of goods and services—erodes the purchasing power of an investor’s portfolio. For example, if an investment provides a “nominal” total return of 5% in a given year and inflation is 2% during that period, the inflation-adjusted, or real, return is 3%. Inflation, as measured by the CPI, has generally occurred during the past 50 years, so investors should be conscious of both the nominal and real returns of their investments. Investors in inflation-indexed securities funds who do not reinvest the portion of the income distribution that is attributable to inflation adjustments will not maintain the purchasing power of the investment over the long term. This is because interest earned depends on the amount of principal invested, and that principal will not grow with inflation if the investor fails to reinvest the principal adjustment paid out as part of a fund’s income distributions. Although inflation-indexed securities are expected to be protected from long-term inflationary trends, short-term increases in inflation may lead to a decline in value. If interest rates rise because of reasons other than inflation (e.g., changes in currency exchange rates), investors in these securities may not be protected to the extent that the increase is not reflected in the bond’s inflation measure.

If the periodic adjustment rate measuring inflation (i.e., the CPI) falls, the principal value of inflation-indexed securities will be adjusted downward, and consequently the interest payable on these securities (calculated with respect to a smaller principal amount) will be reduced. Repayment of the original bond principal upon maturity (as adjusted for inflation) is guaranteed in the case of U.S. Treasury inflation-indexed securities, even during a period of deflation. However, the current market value of the inflation-indexed securities is not guaranteed and will fluctuate. Other inflation-indexed securities include inflation-related bonds, which may or may not provide a similar guarantee. If a guarantee of principal is not provided, the adjusted principal value of the bond repaid at maturity may be less than the original principal.

The value of inflation-indexed securities should change in response to changes in real interest rates. Real interest rates, in turn, are tied to the relationship between nominal interest rates and the rate of inflation. Therefore, if inflation were to rise at a faster rate than nominal interest rates, real interest rates might decline, leading to an increase in value of inflation-indexed securities. In contrast, if nominal interest rates were to increase at a faster rate than inflation, real interest rates might rise, leading to a decrease in value of inflation-indexed securities.

Coupon payments that a fund receives from inflation-indexed securities are included in the fund’s gross income for the period during which they accrue. Any increase in principal for an inflation-indexed security resulting from inflation adjustments is considered by Internal Revenue Service (IRS) regulations to be taxable income in the year it occurs. For direct holders of an inflation-indexed security, this means that taxes must be paid on principal adjustments, even though these amounts are not received until the bond matures. By contrast, a fund holding these securities distributes both interest income and the income attributable to principal adjustments each quarter in the form of cash or reinvested shares (which, like principal adjustments, are taxable to shareholders). It may be necessary for the fund to liquidate portfolio positions, including when it is not advantageous to do so, in order to make required distributions.

Debt Securities—Non-Investment-Grade Securities. Non-investment-grade securities, also referred to as “high-yield securities” or “junk bonds,” are debt securities that are rated lower than the four highest rating categories by a

nationally recognized statistical rating organization (e.g., lower than Baa3/P-2 by Moody's Investors Service, Inc. (Moody's) or below BBB-/A-2 by Standard & Poor's Financial Services LLC (Standard & Poor's)) or, if unrated, are determined to be of comparable quality by the fund's advisor. These securities are generally considered to be, on balance, predominantly speculative with respect to capacity to pay interest and repay principal in accordance with the terms of the obligation, and they will generally involve more credit risk than securities in the investment-grade categories. Non-investment-grade securities generally provide greater income and opportunity for capital appreciation than higher quality securities, but they also typically entail greater price volatility and principal and income risk.

Analysis of the creditworthiness of issuers of high-yield securities may be more complex than for issuers of investment-grade securities. Thus, reliance on credit ratings in making investment decisions entails greater risks for high-yield securities than for investment-grade securities. The success of a fund's advisor in managing high-yield securities is more dependent upon its own credit analysis than is the case with investment-grade securities.

Some high-yield securities are issued by smaller, less-seasoned companies, while others are issued as part of a corporate restructuring such as an acquisition, a merger, or a leveraged buyout. Companies that issue high-yield securities are often highly leveraged and may not have more traditional methods of financing available to them. Therefore, the risk associated with acquiring the securities of such issuers generally is greater than is the case with investment-grade securities. Some high-yield securities were once rated as investment-grade but have been downgraded to junk bond status because of financial difficulties experienced by their issuers.

The market values of high-yield securities tend to reflect individual issuer developments to a greater extent than do investment-grade securities, which in general react to fluctuations in the general level of interest rates. High-yield securities also tend to be more sensitive to economic conditions than are investment-grade securities. An actual or anticipated economic downturn or sustained period of rising interest rates, for example, could cause a decline in junk bond prices because the advent of a recession could lessen the ability of a highly leveraged company to make principal and interest payments on its debt securities. If an issuer of high-yield securities defaults, in addition to risking payment of all or a portion of interest and principal, a fund investing in such securities may incur additional expenses to seek recovery.

The secondary market on which high-yield securities are traded may be less liquid than the market for investment-grade securities. Less liquidity in the secondary trading market could adversely affect the ability of a fund's advisor to sell a high-yield security or the price at which a fund's advisor could sell a high-yield security, and it could also adversely affect the daily net asset value of fund shares. When secondary markets for high-yield securities are less liquid than the market for investment-grade securities, it may be more difficult to value the securities because such valuation may require more research, and elements of judgment may play a greater role in the valuation of the securities.

Except as otherwise provided in a fund's prospectus, if a credit rating agency changes the rating of a portfolio security held by a fund, the fund may retain the portfolio security if the advisor deems it in the best interests of shareholders.

Debt Securities—Structured and Indexed Securities. Structured securities (also called "structured notes") and indexed securities are derivative debt securities, the interest rate or principal of which is determined by an unrelated indicator. Indexed securities include structured notes as well as securities other than debt securities. The value of the principal of and/or interest on structured and indexed securities is determined by reference to changes in the value of a specific asset, reference rate, or index (the reference) or the relative change in two or more references. The interest rate or the principal amount payable upon maturity or redemption may be increased or decreased, depending upon changes in the applicable reference. The terms of the structured and indexed securities may provide that, in certain circumstances, no principal is due at maturity and, therefore, may result in a loss of invested capital. Structured and indexed securities may be positively or negatively indexed, so that appreciation of the reference may produce an increase or a decrease in the interest rate or value of the security at maturity. In addition, changes in the interest rate or the value of the structured or indexed security at maturity may be calculated as a specified multiple of the change in the value of the reference; therefore, the value of such security may be very volatile. Structured and indexed securities may entail a greater degree of market risk than other types of debt securities because the investor bears the risk of the reference. Structured or indexed securities may also be more volatile, less liquid, and more difficult to accurately price than less complex securities or more traditional debt securities, which could lead to an overvaluation or an undervaluation of the securities.

Debt Securities—U.S. Government Securities. The term "U.S. government securities" refers to a variety of debt securities that are issued or guaranteed by the U.S. Treasury, by various agencies of the U.S. government, or by various instrumentalities that have been established or sponsored by the U.S. government. The term also refers to repurchase agreements collateralized by such securities.

U.S. Treasury securities are backed by the full faith and credit of the U.S. government, meaning that the U.S. government is required to repay the principal in the event of default. Other types of securities issued or guaranteed by federal agencies and U.S. government-sponsored instrumentalities may or may not be backed by the full faith and credit of the U.S. government. The U.S. government, however, does not guarantee the market price of any U.S. government securities. In the case of securities not backed by the full faith and credit of the U.S. government, the investor must look principally to the agency or instrumentality issuing or guaranteeing the obligation for ultimate repayment and may not be able to assert a claim against the United States itself in the event the agency or instrumentality does not meet its commitment.

Some of the U.S. government agencies that issue or guarantee securities include the Government National Mortgage Association, the Export-Import Bank of the United States, the Federal Housing Administration, the Maritime Administration, the Small Business Administration, and the Tennessee Valley Authority. An instrumentality of the U.S. government is a government agency organized under federal charter with government supervision. Instrumentalities issuing or guaranteeing securities include, among others, the Federal Deposit Insurance Corporation, the Federal Home Loan Banks, and the Federal National Mortgage Association.

Debt Securities—Variable and Floating Rate Securities. Variable and floating rate securities are debt securities that provide for periodic adjustments in the interest rate paid on the security. Variable rate securities provide for a specified periodic adjustment in the interest rate, while floating rate securities have interest rates that change whenever there is a change in a designated benchmark or reference rate (such as the Secured Overnight Financing Rate (SOFR), or another reference rate) or the issuer's credit quality. There is a risk that the current interest rate on variable and floating rate securities may not accurately reflect current market interest rates or adequately compensate the holder for the current creditworthiness of the issuer. Some variable or floating rate securities are structured with liquidity features such as (1) put options or tender options that permit holders (sometimes subject to conditions) to demand payment of the unpaid principal balance plus accrued interest from the issuers or certain financial intermediaries or (2) auction-rate features, remarketing provisions, or other maturity-shortening devices designed to enable the issuer to refinance or redeem outstanding debt securities (market-dependent liquidity features). Variable or floating rate securities that include market-dependent liquidity features may have greater liquidity risk than other securities. The greater liquidity risk may exist, for example, because of the failure of a market-dependent liquidity feature to operate as intended (as a result of the issuer's declining creditworthiness, adverse market conditions, or other factors) or the inability or unwillingness of a participating broker-dealer to make a secondary market for such securities. As a result, variable or floating rate securities that include market-dependent liquidity features may lose value, and the holders of such securities may be required to retain them until the later of the repurchase date, the resale date, or the date of maturity. A demand instrument with a demand notice exceeding seven days may be considered illiquid if there is no secondary market for such security.

Debt Securities—Zero-Coupon and Pay-in-Kind Securities. Zero-coupon and pay-in-kind securities are debt securities that do not make regular cash interest payments. Zero-coupon securities generally do not pay interest. Zero-coupon Treasury bonds are U.S. Treasury notes and bonds that have been stripped of their unmatured interest coupons, or the coupons themselves, and also receipts or certificates representing an interest in such stripped debt obligations and coupons. The timely payment of coupon interest and principal on these instruments remains guaranteed by the full faith and credit of the U.S. government. Pay-in-kind securities pay interest through the issuance of additional securities. These securities are generally issued at a discount to their principal or maturity value. Because such securities do not pay current cash income, the price of these securities can be volatile when interest rates fluctuate. Although these securities do not pay current cash income, federal income tax law requires the holders of zero-coupon and pay-in-kind securities to include in income each year the portion of the original issue discount and other noncash income on such securities accrued during that year. Each fund that holds such securities intends to pass along such interest as a component of the fund's distributions of net investment income. It may be necessary for the fund to liquidate portfolio positions, including when it is not advantageous to do so, in order to make required distributions.

Depositary Receipts. Depositary receipts (also sold as participatory notes) are securities that evidence ownership interests in a security or a pool of securities that have been deposited with a "depository." Depositary receipts may be sponsored or unsponsored and include American Depositary Receipts (ADRs), European Depositary Receipts (EDRs), and Global Depositary Receipts (GDRs). For ADRs, the depository is typically a U.S. financial institution, and the underlying securities are issued by a foreign issuer. For other depositary receipts, the depository may be a foreign or a U.S. entity, and the underlying securities may have a foreign or a U.S. issuer. Depositary receipts will not necessarily be denominated in the same currency as their underlying securities. Generally, ADRs are issued in registered form, denominated in U.S. dollars, and designed for use in the U.S. securities markets. Other depositary receipts, such as

GDRs and EDRs, may be issued in bearer form and denominated in other currencies, and they are generally designed for use in securities markets outside the United States. Although the two types of depositary receipt facilities (sponsored and unsponsored) are similar, there are differences regarding a holder's rights and obligations and the practices of market participants.

A depositary may establish an unsponsored facility without participation by (or acquiescence of) the underlying issuer; typically, however, the depositary requests a letter of nonobjection from the underlying issuer prior to establishing the facility. Holders of unsponsored depositary receipts generally bear all the costs of the facility. The depositary usually charges fees upon the deposit and withdrawal of the underlying securities, the conversion of dividends into U.S. dollars or other currency, the disposition of noncash distributions, and the performance of other services. The depositary of an unsponsored facility frequently is under no obligation to distribute shareholder communications received from the underlying issuer or to pass through voting rights to depositary receipt holders with respect to the underlying securities.

Sponsored depositary receipt facilities are created in generally the same manner as unsponsored facilities, except that sponsored depositary receipts are established jointly by a depositary and the underlying issuer through a deposit agreement. The deposit agreement sets out the rights and responsibilities of the underlying issuer, the depositary, and the depositary receipt holders. With sponsored facilities, the underlying issuer typically bears some of the costs of the depositary receipts (such as dividend payment fees of the depositary), although most sponsored depositary receipt holders may bear costs such as deposit and withdrawal fees. Depositories of most sponsored depositary receipts agree to distribute notices of shareholder meetings, voting instructions, and other shareholder communications and information to the depositary receipt holders at the underlying issuer's request.

For purposes of a fund's investment policies, investments in depositary receipts will be deemed to be investments in the underlying securities. Thus, a depositary receipt representing ownership of common stock will be treated as common stock. Depositary receipts do not eliminate all of the risks associated with directly investing in the securities of foreign issuers.

Derivatives. A derivative is a financial instrument that has a value based on—or “derived from”—the values of other assets, reference rates, or indexes. Derivatives may relate to a wide variety of underlying references, such as commodities, stocks, bonds, interest rates, currency exchange rates, and related indexes. Derivatives include futures contracts and options on futures contracts, certain forward-commitment transactions, options on securities, caps, floors, collars, swap agreements, and certain other financial instruments. Some derivatives, such as futures contracts and certain options, are traded on U.S. commodity and securities exchanges, while other derivatives, such as swap agreements, may be privately negotiated and entered into in the over-the-counter market (OTC Derivatives) or may be cleared through a clearinghouse (Cleared Derivatives) and traded on an exchange or swap execution facility. As a result of the Dodd-Frank Wall Street Reform and Consumer Protection Act (the Dodd-Frank Act), certain swap agreements, such as certain standardized credit default and interest rate swap agreements, must be cleared through a clearinghouse and traded on an exchange or swap execution facility. This could result in an increase in the overall costs of such transactions. While the intent of derivatives regulatory reform is to mitigate risks associated with derivatives markets, the regulations could, among other things, increase liquidity and decrease pricing for more standardized products while decreasing liquidity and increasing pricing for less standardized products. The risks associated with the use of derivatives are different from, and possibly greater than, the risks associated with investing directly in the securities or assets on which the derivatives are based.

Derivatives may be used for a variety of purposes, including—but not limited to—hedging, managing risk, seeking to stay fully invested, seeking to reduce transaction costs, seeking to simulate an investment in equity or debt securities or other investments, and seeking to add value by using derivatives to more efficiently implement portfolio positions when derivatives are favorably priced relative to equity or debt securities or other investments. Some investors may use derivatives primarily for speculative purposes while other uses of derivatives may not constitute speculation. There is no assurance that any derivatives strategy used by a fund's advisor will succeed. The other parties to a fund's OTC Derivatives contracts (usually referred to as “counterparties”) will not be considered the issuers thereof for purposes of certain provisions of the 1940 Act and the IRC, although such OTC Derivatives may qualify as securities or investments under such laws. A fund's advisor(s), however, will monitor and adjust, as appropriate, the fund's credit risk exposure to OTC Derivative counterparties.

Derivative products are highly specialized instruments that require investment techniques and risk analyses different from those associated with stocks, bonds, and other traditional investments. The use of a derivative requires an understanding not only of the underlying instrument but also of the derivative itself, without the benefit of observing the performance of the derivative under all possible market conditions.

When a fund enters into a Cleared Derivative, an initial margin deposit with a Futures Commission Merchant (FCM) is required. Initial margin deposits are typically calculated as an amount equal to the volatility in market value of a Cleared Derivative over a fixed period. If the value of the fund's Cleared Derivatives declines, the fund will be required to make additional "variation margin" payments to the FCM to settle the change in value. If the value of the fund's Cleared Derivatives increases, the FCM will be required to make additional "variation margin" payments to the fund to settle the change in value. This process is known as "marking-to-market" and is calculated on a daily basis.

For OTC Derivatives, a fund is subject to the risk that a loss may be sustained as a result of the insolvency or bankruptcy of the counterparty or the failure of the counterparty to make required payments or otherwise comply with the terms of the contract. Additionally, the use of credit derivatives can result in losses if a fund's advisor does not correctly evaluate the creditworthiness of the issuer on which the credit derivative is based.

Derivatives may be subject to liquidity risk, which exists when a particular derivative is difficult to purchase or sell. If a derivative transaction is particularly large or if the relevant market is illiquid (as is the case with certain OTC Derivatives), it may not be possible to initiate a transaction or liquidate a position at an advantageous time or price.

Derivatives may be subject to pricing or "basis" risk, which exists when a particular derivative becomes extraordinarily expensive relative to historical prices or the prices of corresponding cash market instruments. Under certain market conditions, it may not be economically feasible to initiate a transaction or liquidate a position in time to avoid a loss or take advantage of an opportunity.

Because certain derivatives have a leverage component, adverse changes in the value or level of the underlying asset, reference rate, or index can result in a loss substantially greater than the amount invested in the derivative itself. Certain derivatives have the potential for unlimited loss, regardless of the size of the initial investment. A derivative transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

Like most other investments, derivative instruments are subject to the risk that the market value of the instrument will change in a way detrimental to a fund's interest. A fund bears the risk that its advisor will incorrectly forecast future market trends or the values of assets, reference rates, indexes, or other financial or economic factors in establishing derivative positions for the fund. If the advisor attempts to use a derivative as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the derivative will have or will develop imperfect or no correlation with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies involving derivative instruments can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many derivatives (in particular, OTC Derivatives) are complex and often valued subjectively. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

Each Fund intends to comply with Rule 4.5 under the Commodity Exchange Act (CEA), under which a mutual fund may be excluded from the definition of the term Commodity Pool Operator (CPO) if the fund meets certain conditions such as limiting its investments in certain CEA-regulated instruments (e.g., futures, options, or swaps) and complying with certain marketing restrictions. Accordingly, Vanguard is not subject to registration or regulation as a CPO with respect to each Fund under the CEA. Each Fund will only enter into futures contracts and futures options that are traded on a U.S. or foreign exchange, board of trade, or similar entity or that are quoted on an automated quotation system.

Exchange-Traded Funds. A fund may purchase shares of exchange-traded funds (ETFs). Typically, a fund would purchase ETF shares for the same reason it would purchase (and as an alternative to purchasing) futures contracts: to obtain exposure to all or a portion of the stock or bond market. ETF shares enjoy several advantages over futures. Depending on the market, the holding period, and other factors, ETF shares can be less costly and more tax-efficient than futures. In addition, ETF shares can be purchased for smaller sums, offer exposure to market sectors and styles for which there is no suitable or liquid futures contract, and do not involve leverage.

An investment in an ETF generally presents the same principal risks as an investment in a conventional fund (i.e., one that is not exchange-traded) that has the same investment objective, strategies, and policies. The price of an ETF can fluctuate within a wide range, and a fund could lose money investing in an ETF if the prices of the securities owned by the ETF go down. In addition, ETFs are subject to the following risks that do not apply to conventional funds: (1) the market price of an ETF's shares may trade at a discount or a premium to their net asset value; (2) an active trading market for an ETF's shares may not develop or be maintained; and (3) trading of an ETF's shares may be halted by the

activation of individual or marketwide trading halts (which halt trading for a specific period of time when the price of a particular security or overall market prices decline by a specified percentage). Trading of an ETF's shares may also be halted if the shares are delisted from the exchange without first being listed on another exchange or if the listing exchange's officials determine that such action is appropriate in the interest of a fair and orderly market or for the protection of investors.

Most ETFs are investment companies. Therefore, a fund's purchases of ETF shares generally are subject to the limitations on, and the risks of, a fund's investments in other investment companies, which are described under the heading "*Other Investment Companies*."

Vanguard ETF^{®*} Shares are exchange-traded shares that represent an interest in an investment portfolio held by Vanguard funds. A fund's investments in Vanguard ETF Shares are also generally subject to the descriptions, limitations, and risks described under the heading "*Other Investment Companies*," except as provided by an exemption granted by the SEC that permits registered investment companies to invest in a Vanguard fund that issues ETF Shares beyond the limits of Section 12(d)(1) of the 1940 Act, subject to certain terms and conditions.

* U.S. Patent Nos. 6,879,964; 7,337,138; 7,720,749; 7,925,573; 8,090,646; and 8,417,623.

Foreign Securities. Typically, foreign securities are considered to be equity or debt securities issued by entities organized, domiciled, or with a principal executive office outside the United States, such as foreign corporations and governments. Securities issued by certain companies organized outside the United States may not be deemed to be foreign securities if the company's principal operations are conducted from the United States or when the company's equity securities trade principally on a U.S. stock exchange. Foreign securities may trade in U.S. or foreign securities markets. A fund may make foreign investments either directly by purchasing foreign securities or indirectly by purchasing depositary receipts or depositary shares of similar instruments (depositary receipts) for foreign securities. Direct investments in foreign securities may be made either on foreign securities exchanges or in the over-the-counter (OTC) markets. Investing in foreign securities involves certain special risk considerations that are not typically associated with investing in securities of U.S. companies or governments.

Because foreign issuers are not generally subject to uniform accounting, auditing, and financial reporting standards and practices comparable to those applicable to U.S. issuers, there may be less publicly available information about certain foreign issuers than about U.S. issuers. Evidence of securities ownership may be uncertain in many foreign countries. As a result, there are risks that could result in a loss to the fund, including, but not limited to, the risk that a fund's trade details could be incorrectly or fraudulently entered at the time of a transaction. Securities of foreign issuers are generally more volatile and less liquid than securities of comparable U.S. issuers, and foreign investments may be effected through structures that may be complex or confusing. In certain countries, there is less government supervision and regulation of stock exchanges, brokers, and listed companies than in the United States. The risk that securities traded on foreign exchanges may be suspended, either by the issuers themselves, by an exchange, or by government authorities, is also heightened. In addition, with respect to certain foreign countries, there is the possibility of expropriation or confiscatory taxation, political or social instability, war, terrorism, nationalization, limitations on the removal of funds or other assets, or diplomatic developments that could affect U.S. investments in those countries. Additionally, economic or other sanctions imposed on the United States by a foreign country, or imposed on a foreign country or issuer by the United States, could impair a fund's ability to buy, sell, hold, receive, deliver, or otherwise transact in certain investment securities. Sanctions could also affect the value and/or liquidity of a foreign security.

Although an advisor will endeavor to achieve the most favorable execution costs for a fund's portfolio transactions in foreign securities under the circumstances, commissions and other transaction costs are generally higher than those on U.S. securities. In addition, it is expected that the custodian arrangement expenses for a fund that invests primarily in foreign securities will be somewhat greater than the expenses for a fund that invests primarily in domestic securities. Additionally, bankruptcy laws vary by jurisdiction and cash deposits may be subject to a custodian's creditors. Certain foreign governments levy withholding or other taxes against dividend and interest income from, capital gains on the sale of, or transactions in foreign securities. Although in some countries a portion of these taxes is recoverable by the fund, the nonrecovered portion of foreign withholding taxes will reduce the income received from such securities.

The value of the foreign securities held by a fund that are not U.S. dollar-denominated may be significantly affected by changes in currency exchange rates. The U.S. dollar value of a foreign security generally decreases when the value of the U.S. dollar rises against the foreign currency in which the security is denominated, and it tends to increase when the value of the U.S. dollar falls against such currency (as discussed under the heading "*Foreign Securities—Foreign*

Currency Transactions, “ a fund may attempt to hedge its currency risks). In addition, the value of fund assets may be affected by losses and other expenses incurred from converting between various currencies in order to purchase and sell foreign securities, as well as by currency restrictions, exchange control regulations, currency devaluations, and political and economic developments.

Foreign Securities—China A-shares Risk. China A-shares (A-shares) are shares of mainland Chinese companies that are traded locally on the Shanghai and Shenzhen stock exchanges. A-shares investment by foreign investors are currently only available through the QFII/RQFII license or the China Stock Connect program. The developing state of the investment and banking systems of the People’s Republic of China (China, or the PRC) subjects the settlement, clearing, and registration of securities transactions to heightened risks. Additionally, there are foreign ownership limitations that may result in limitations on investment or the return of profits if a fund purchases and sells shares of an issuer in which it owns 5% or more of the shares issued within a six-month period. It is unclear if the 5% ownership will be determined by aggregating the holdings of a fund with affiliated funds.

Due to these restrictions, it is possible that the A-shares available to a fund as a foreign investor may not be sufficient to meet the fund’s investment needs. In this situation, a fund may seek an alternative method of economic exposure, such as by purchasing other classes of securities or depositary receipts or by utilizing derivatives. Any of these options could increase a fund’s index sampling risk (for index funds) or investment cost. Additionally, investing in A-shares generally increases emerging markets risk due in part to government and issuer market controls and the developing settlement and legal systems.

Investing in China A-shares through Stock Connect. The China Stock Connect program (Stock Connect) is a mutual market access program designed to, among other things, enable foreign investment in the PRC via brokers in Hong Kong. A QFII/RQFII license is not required to trade via Stock Connect. There are significant risks inherent in investing in A-shares through Stock Connect. Specifically, trading can be affected by a number of issues. Stock Connect can only operate when both PRC and Hong Kong markets are open for trading and when banking services are available in both markets on the corresponding settlement days. As such, if one or both markets are closed on a U.S. trading day, a fund may not be able to dispose of its shares in a timely manner, which could adversely affect the fund’s performance. Trading through Stock Connect may require pre-delivery or pre-validation of cash or securities to or by a broker. If the cash or securities are not in the broker’s possession before the market opens on the day of selling, the sell order will be rejected. This requirement may limit a fund’s ability to dispose of its A-shares purchased through Stock Connect in a timely manner.

Additionally, Stock Connect is subject to daily quota limitations on purchases into the PRC. Once the daily quota is reached, orders to purchase additional A-shares through Stock Connect will be rejected. In addition, a fund’s purchase of A-shares through Stock Connect may only be subsequently sold through Stock Connect and is not otherwise transferable. Stock Connect utilizes an omnibus clearing structure, and the fund’s shares will be registered in its custodian’s name on the Hong Kong Central Clearing and Settlement System. This may limit an advisor’s ability to effectively manage a fund’s holdings, including the potential enforcement of equity owner rights.

Foreign Securities—Emerging Market Risk. Investing in emerging market countries involves certain risks not typically associated with investing in the United States, and it imposes risks greater than, or in addition to, risks of investing in more developed foreign countries. These risks include, but are not limited to, the following: nationalization or expropriation of assets or confiscatory taxation; currency devaluations and other currency exchange rate fluctuations; greater social, economic, and political uncertainty and instability (including amplified risk of war and terrorism); more substantial government involvement in the economy; less government supervision and regulation of the securities markets and participants in those markets and possible arbitrary and unpredictable enforcement of securities regulations and other laws; controls on foreign investment and limitations on repatriation of invested capital and on the fund’s ability to exchange local currencies for U.S. dollars; unavailability of currency-hedging techniques in certain emerging market countries; generally smaller, less seasoned, or newly organized companies; differences in, or lack of, auditing and financial reporting standards, which may result in unavailability of material information about issuers; difficulty in obtaining and/or enforcing a judgment in a court outside the United States; and greater price volatility, substantially less liquidity, and significantly smaller market capitalization of securities markets. Also, any change in the leadership or politics of emerging market countries, or the countries that exercise a significant influence over those countries, may halt the expansion of or reverse the liberalization of foreign investment policies now occurring and adversely affect existing investment opportunities. Furthermore, high rates of inflation and rapid fluctuations in inflation

rates have had, and may continue to have, negative effects on the economies and securities markets of certain emerging market countries. Custodial expenses and other investment-related costs are often more expensive in emerging market countries, which can reduce a fund's income from investments in securities or debt instruments of emerging market country issuers.

Foreign Securities—Foreign Currency Transactions. The value in U.S. dollars of a fund's non-dollar-denominated foreign securities may be affected favorably or unfavorably by changes in foreign currency exchange rates and exchange control regulations, and the fund may incur costs in connection with conversions between various currencies. To seek to minimize the impact of such factors on net asset values, a fund may engage in foreign currency transactions in connection with its investments in foreign securities. A fund will enter into foreign currency transactions only to attempt to "hedge" the currency risk associated with investing in foreign securities. Although such transactions tend to minimize the risk of loss that would result from a decline in the value of the hedged currency, they also may limit any potential gain that might result should the value of such currency increase.

Currency exchange transactions may be conducted either on a spot (i.e., cash) basis at the rate prevailing in the currency exchange market or through forward contracts to purchase or sell foreign currencies. A forward currency contract involves an obligation to purchase or sell a specific currency at a future date, which may be any fixed number of days from the date of the contract agreed upon by the parties, at a price set at the time of the contract. These contracts are entered into with large commercial banks or other currency traders who are participants in the interbank market. Currency exchange transactions also may be effected through the use of swap agreements or other derivatives.

Currency exchange transactions may be considered borrowings. A currency exchange transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

By entering into a forward contract for the purchase or sale of foreign currency involved in underlying security transactions, a fund may be able to protect itself against part or all of the possible loss between trade and settlement dates for that purchase or sale resulting from an adverse change in the relationship between the U.S. dollar and such foreign currency. This practice is sometimes referred to as "transaction hedging." In addition, when the advisor reasonably believes that a particular foreign currency may suffer a substantial decline against the U.S. dollar, a fund may enter into a forward contract to sell an amount of foreign currency approximating the value of some or all of its portfolio securities denominated in such foreign currency. This practice is sometimes referred to as "portfolio hedging." Similarly, when the advisor reasonably believes that the U.S. dollar may suffer a substantial decline against a foreign currency, a fund may enter into a forward contract to buy that foreign currency for a fixed dollar amount.

A fund may also attempt to hedge its foreign currency exchange rate risk by engaging in currency futures, options, and "cross-hedge" transactions. In cross-hedge transactions, a fund holding securities denominated in one foreign currency will enter into a forward currency contract to buy or sell a different foreign currency (one that the advisor reasonably believes generally tracks the currency being hedged with regard to price movements). The advisor may select the tracking (or substitute) currency rather than the currency in which the security is denominated for various reasons, including in order to take advantage of pricing or other opportunities presented by the tracking currency or to take advantage of a more liquid or more efficient market for the tracking currency. Such cross-hedges are expected to help protect a fund against an increase or decrease in the value of the U.S. dollar against certain foreign currencies.

A fund may hold a portion of its assets in bank deposits denominated in foreign currencies so as to facilitate investment in foreign securities as well as protect against currency fluctuations and the need to convert such assets into U.S. dollars (thereby also reducing transaction costs). To the extent these assets are converted back into U.S. dollars, the value of the assets so maintained will be affected favorably or unfavorably by changes in foreign currency exchange rates and exchange control regulations.

Forecasting the movement of the currency market is extremely difficult. Whether any hedging strategy will be successful is highly uncertain. Moreover, it is impossible to forecast with precision the market value of portfolio securities at the expiration of a forward currency contract. Accordingly, a fund may be required to buy or sell additional currency on the spot market (and bear the expense of such transaction) if its advisor's predictions regarding the movement of foreign currency or securities markets prove inaccurate. In addition, the use of cross-hedging transactions

may involve special risks and may leave a fund in a less advantageous position than if such a hedge had not been established. Because forward currency contracts are privately negotiated transactions, there can be no assurance that a fund will have flexibility to roll over a forward currency contract upon its expiration if it desires to do so. Additionally, there can be no assurance that the other party to the contract will perform its services thereunder.

Foreign Securities—Foreign Investment Companies. Some of the countries in which a fund may invest may not permit, or may place economic restrictions on, direct investment by outside investors. Fund investments in such countries may be permitted only through foreign government-approved or authorized investment vehicles, which may include other investment companies. Such investments may be made through registered or unregistered closed-end investment companies that invest in foreign securities. Investing through such vehicles may involve layered fees or expenses and may also be subject to the limitations on, and the risks of, a fund's investments in other investment companies, which are described under the heading "*Other Investment Companies*."

Futures Contracts and Options on Futures Contracts. Futures contracts and options on futures contracts are derivatives. A futures contract is a standardized agreement between two parties to buy or sell at a specific time in the future a specific quantity of a commodity at a specific price. The commodity may consist of an asset, a reference rate, or an index. A security futures contract relates to the sale of a specific quantity of shares of a single equity security or a narrow-based securities index. The value of a futures contract tends to increase and decrease in tandem with the value of the underlying commodity. The buyer of a futures contract enters into an agreement to purchase the underlying commodity on the settlement date and is said to be "long" the contract. The seller of a futures contract enters into an agreement to sell the underlying commodity on the settlement date and is said to be "short" the contract. The price at which a futures contract is entered into is established either in the electronic marketplace or by open outcry on the floor of an exchange between exchange members acting as traders or brokers. Open futures contracts can be liquidated or closed out by physical delivery of the underlying commodity or payment of the cash settlement amount on the settlement date, depending on the terms of the particular contract. Some financial futures contracts (such as security futures) provide for physical settlement at maturity. Other financial futures contracts (such as those relating to interest rates, foreign currencies, and broad-based securities indexes) generally provide for cash settlement at maturity. In the case of cash-settled futures contracts, the cash settlement amount is equal to the difference between the final settlement or market price for the relevant commodity on the last trading day of the contract and the price for the relevant commodity agreed upon at the outset of the contract. Most futures contracts, however, are not held until maturity but instead are "offset" before the settlement date through the establishment of an opposite and equal futures position.

The purchaser or seller of a futures contract is not required to deliver or pay for the underlying commodity unless the contract is held until the settlement date. However, both the purchaser and seller are required to deposit "initial margin" with a futures commission merchant (FCM) when the futures contract is entered into. Initial margin deposits are typically calculated as an amount equal to the volatility in market value of a contract over a fixed period. If the value of the fund's position declines, the fund will be required to make additional "variation margin" payments to the FCM to settle the change in value. If the value of the fund's position increases, the FCM will be required to make additional "variation margin" payments to the fund to settle the change in value. This process is known as "marking-to-market" and is calculated on a daily basis. A futures transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing*."

An option on a futures contract (or futures option) conveys the right, but not the obligation, to purchase (in the case of a call option) or sell (in the case of a put option) a specific futures contract at a specific price (called the "exercise" or "strike" price) any time before the option expires. The seller of an option is called an option writer. The purchase price of an option is called the premium. The potential loss to an option buyer is limited to the amount of the premium plus transaction costs. This will be the case, for example, if the option is held and not exercised prior to its expiration date. Generally, an option writer sells options with the goal of obtaining the premium paid by the option buyer. If an option sold by an option writer expires without being exercised, the writer retains the full amount of the premium. The option writer, however, has unlimited economic risk because its potential loss, except to the extent offset by the premium received when the option was written, is equal to the amount the option is "in-the-money" at the expiration date. A call option is in-the-money if the value of the underlying futures contract exceeds the exercise price of the option. A put option is in-the-money if the exercise price of the option exceeds the value of the underlying futures contract. Generally, any profit realized by an option buyer represents a loss for the option writer.

A fund that takes the position of a writer of a futures option is required to deposit and maintain initial and variation margin with respect to the option, as previously described in the case of futures contracts. A futures option transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

Each Fund intends to comply with Rule 4.5 under the Commodity Exchange Act (CEA), under which a mutual fund may be excluded from the definition of the term Commodity Pool Operator (CPO) if the fund meets certain conditions such as limiting its investments in certain CEA-regulated instruments (e.g., futures, options, or swaps) and complying with certain marketing restrictions. Accordingly, Vanguard is not subject to registration or regulation as a CPO with respect to each Fund under the CEA. A Fund will only enter into futures contracts and futures options that are traded on a U.S. or foreign exchange, board of trade, or similar entity or that are quoted on an automated quotation system.

Futures Contracts and Options on Futures Contracts—Risks. The risk of loss in trading futures contracts and in writing futures options can be substantial because of the low margin deposits required, the extremely high degree of leverage involved in futures and options pricing, and the potential high volatility of the futures markets. As a result, a relatively small price movement in a futures position may result in immediate and substantial loss (or gain) for the investor. For example, if at the time of purchase, 10% of the value of the futures contract is deposited as margin, a subsequent 10% decrease in the value of the futures contract would result in a total loss of the margin deposit, before any deduction for the transaction costs, if the account were then closed out. A 15% decrease would result in a loss equal to 150% of the original margin deposit if the contract were closed out. Thus, a purchase or sale of a futures contract, and the writing of a futures option, may result in losses in excess of the amount invested in the position. In the event of adverse price movements, a fund would continue to be required to make daily cash payments to maintain its required margin. In such situations, if the fund has insufficient cash, it may have to sell portfolio securities to meet daily margin requirements (and segregation requirements, if applicable) at a time when it may be disadvantageous to do so. In addition, on the settlement date, a fund may be required to make delivery of the instruments underlying the futures positions it holds.

A fund could suffer losses if it is unable to close out a futures contract or a futures option because of an illiquid secondary market. Futures contracts and futures options may be closed out only on an exchange that provides a secondary market for such products. However, there can be no assurance that a liquid secondary market will exist for any particular futures product at any specific time. Thus, it may not be possible to close a futures or option position. Moreover, most futures exchanges limit the amount of fluctuation permitted in futures contract prices during a single trading day. The daily limit establishes the maximum amount that the price of a futures contract may vary either up or down from the previous day's settlement price at the end of a trading session. Once the daily limit has been reached in a particular type of contract, no trades may be made on that day at a price beyond that limit. The daily limit governs only price movement during a particular trading day, and therefore does not limit potential losses because the limit may prevent the liquidation of unfavorable positions. Futures contract prices have occasionally moved to the daily limit for several consecutive trading days with little or no trading, thereby preventing prompt liquidation of future positions and subjecting some futures traders to substantial losses. The inability to close futures and options positions also could have an adverse impact on the ability to hedge a portfolio investment or to establish a substitute for a portfolio investment. U.S. Treasury futures are generally not subject to such daily limits.

A fund bears the risk that its advisor will incorrectly predict future market trends. If the advisor attempts to use a futures contract or a futures option as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the futures position will have or will develop imperfect or no correlation with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies involving futures products can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments.

A fund could lose margin payments it has deposited with its FCM if, for example, the FCM breaches its agreement with the fund or becomes insolvent or goes into bankruptcy. In that event, the fund may be entitled to return of margin owed to it only in proportion to the amount received by the FCM's other customers, potentially resulting in losses to the fund.

Hybrid Instruments. A hybrid instrument, or hybrid, is an interest in an issuer that combines the characteristics of an equity security, a debt security, a commodity, and/or a derivative. A hybrid may have characteristics that, on the whole, more strongly suggest the existence of a bond, stock, or other traditional investment, but a hybrid may also have prominent features that are normally associated with a different type of investment. Moreover, hybrid instruments may

be treated as a particular type of investment for one regulatory purpose (such as taxation) and may be simultaneously treated as a different type of investment for a different regulatory purpose (such as securities or commodity regulation). Hybrids can be used as an efficient means of pursuing a variety of investment goals, including increased total return, duration management, and currency hedging. Because hybrids combine features of two or more traditional investments and may involve the use of innovative structures, hybrids present risks that may be similar to, different from, or greater than those associated with traditional investments with similar characteristics.

Examples of hybrid instruments include convertible securities, which combine the investment characteristics of bonds and common stocks; perpetual bonds, which are structured like fixed income securities, have no maturity date, and may be characterized as debt or equity for certain regulatory purposes; contingent convertible securities, which are fixed income securities that, under certain circumstances, either convert into common stock of the issuer or undergo a principal write-down by a predetermined percentage if the issuer's capital ratio falls below a predetermined trigger level; and trust-preferred securities, which are preferred stocks of a special-purpose trust that holds subordinated debt of the corporate parent. Another example of a hybrid is a commodity-linked bond, such as a bond issued by an oil company that pays a small base level of interest with additional interest that accrues in correlation to the extent to which oil prices exceed a certain predetermined level. Such a hybrid would be a combination of a bond and a call option on oil.

In the case of hybrids that are structured like fixed income securities (such as structured notes), the principal amount or the interest rate is generally tied (positively or negatively) to the price of some commodity, currency, securities index, interest rate, or other economic factor (each, a benchmark). For some hybrids, the principal amount payable at maturity or the interest rate may be increased or decreased, depending on changes in the value of the benchmark. Other hybrids do not bear interest or pay dividends. The value of a hybrid or its interest rate may be a multiple of a benchmark and, as a result, may be leveraged and move (up or down) more steeply and rapidly than the benchmark, thus magnifying movements within the benchmark. These benchmarks may be sensitive to economic and political events, such as commodity shortages and currency devaluations, which cannot be readily foreseen by the purchaser of a hybrid. Under certain conditions, the redemption value of a hybrid could be zero. Thus, an investment in a hybrid may entail significant market risks that are not associated with a similar investment in a traditional, U.S. dollar-denominated bond with a fixed principal amount that pays a fixed rate or floating rate of interest. The purchase of hybrids also exposes a fund to the credit risk of the issuer of the hybrids. Depending on the level of a fund's investment in hybrids, these risks may cause significant fluctuations in the fund's net asset value. Hybrid instruments may also carry liquidity risk since the instruments are often "customized" to meet the needs of an issuer or, sometimes, the portfolio needs of a particular investor, and therefore the number of investors that are willing and able to buy such instruments in the secondary market may be smaller than that for more traditional securities.

Certain issuers of hybrid instruments known as structured products may be deemed to be investment companies as defined in the 1940 Act. As a result, a fund's investments in these products may be subject to the limitations described under the heading "*Other Investment Companies.*"

Industry Concentration. The SEC staff takes the position that a fund concentrates its investments if it invests more than 25% of its assets in any particular industry. (For this purpose investments do not include certain items such as cash, U.S. government securities, securities of other investment companies, and certain tax-exempt securities.)

Interfund Borrowing and Lending. The SEC has granted an exemption permitting registered open-end Vanguard funds to participate in Vanguard's interfund lending program. This program allows the Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes. The program is subject to a number of conditions, including, among other things, the requirements that (1) no fund may borrow or lend money through the program unless it receives a more favorable interest rate than is typically available from a bank for a comparable transaction, (2) no fund may lend money if the loan would cause its aggregate outstanding loans through the program to exceed 15% of its net assets at the time of the loan, and (3) a fund's interfund loans to any one fund shall not exceed 5% of the lending fund's net assets. In addition, a Vanguard fund may participate in the program only if and to the extent that such participation is consistent with the fund's investment objective and investment policies. The boards of trustees of the Vanguard funds are responsible for overseeing the interfund lending program. Any delay in repayment to a lending fund could result in a lost investment opportunity or additional borrowing costs.

Investing for Control. Each Vanguard fund invests in securities and other instruments for the sole purpose of achieving a specific investment objective. As such, a Vanguard fund does not seek to acquire, individually or collectively with any other Vanguard fund, enough of a company's outstanding voting stock to have control over management decisions. A Vanguard fund does not invest for the purpose of controlling a company's management.

Loan Interests and Direct Debt Instruments. Loan interests and direct debt instruments are interests in amounts owed by a corporate, governmental, or other borrower to lenders or lending syndicates (in the case of loans and loan participations); to suppliers of goods or services (in the case of trade claims or other receivables); or to other parties. These investments involve a risk of loss in case of default, insolvency, or the bankruptcy of the borrower and may offer less legal protection to the purchaser in the event of fraud or misrepresentation, or there may be a requirement that a purchaser supply additional cash to a borrower on demand.

Purchasers of loans and other forms of direct indebtedness depend primarily upon the creditworthiness of the borrower for payment of interest and repayment of principal. Direct debt instruments may not be rated by a rating agency. If scheduled interest or principal payments are not made, or are not made in a timely manner, the value of the instrument may be adversely affected. Loans that are fully secured provide more protections than unsecured loans in the event of failure to make scheduled interest or principal payments. However, there is no assurance that the liquidation of collateral from a secured loan would satisfy the borrower's obligation or that the collateral could be liquidated. Indebtedness of borrowers whose creditworthiness is poor involves substantially greater risks and may be highly speculative. Borrowers that are in bankruptcy or restructuring may never pay off their indebtedness, or they may pay only a small fraction of the amount owed. Direct indebtedness of countries, particularly developing countries, also involves a risk that the governmental entities responsible for the repayment of the debt may be unable, or unwilling, to pay interest and repay principal when due.

Corporate loans and other forms of direct corporate indebtedness in which a fund may invest generally are made to finance internal growth, mergers, acquisitions, stock repurchases, refinancing of existing debt, leveraged buyouts, and other corporate activities. A significant portion of the corporate indebtedness purchased by a fund may represent interests in loans or debt made to finance highly leveraged corporate acquisitions (known as "leveraged buyout" transactions), leveraged recapitalization loans, and other types of acquisition financing. Another portion may also represent loans incurred in restructuring or "work-out" scenarios, including super-priority debtor-in-possession facilities in bankruptcy and acquisition of assets out of bankruptcy. Loans in restructuring or work-out scenarios may be especially vulnerable to the inherent uncertainties in restructuring processes. In addition, the highly leveraged capital structure of the borrowers in any such transactions, whether in acquisition financing or restructuring, may make such loans especially vulnerable to adverse or unusual economic or market conditions.

Loans and other forms of direct indebtedness generally are subject to restrictions on transfer, and only limited opportunities may exist to sell them in secondary markets. As a result, a fund may be unable to sell loans and other forms of direct indebtedness at a time when it may otherwise be desirable to do so or may be able to sell them only at a price that is less than their fair value.

Investments in loans through direct assignment of a financial institution's interests with respect to a loan may involve additional risks. For example, if a loan is foreclosed, the purchaser could become part owner of any collateral and would bear the costs and liabilities associated with owning and disposing of the collateral. In addition, it is at least conceivable that, under emerging legal theories of lender liability, a purchaser could be held liable as a co-lender. Direct debt instruments may also involve a risk of insolvency of the lending bank or other intermediary.

A loan is often administered by a bank or other financial institution that acts as agent for all holders. The agent administers the terms of the loan, as specified in the loan agreement. Unless the purchaser has direct recourse against the borrower, the purchaser may have to rely on the agent to apply appropriate credit remedies against a borrower under the terms of the loan or other indebtedness. If assets held by the agent for the benefit of a purchaser were determined to be subject to the claims of the agent's general creditors, the purchaser might incur certain costs and delays in realizing payment on the loan or loan participation and could suffer a loss of principal and/or interest.

Direct indebtedness may include letters of credit, revolving credit facilities, or other standby financing commitments that obligate purchasers to make additional cash payments on demand. These commitments may have the effect of requiring a purchaser to increase its investment in a borrower when it would not otherwise have done so, even if the borrower's condition makes it unlikely that the amount will ever be repaid.

A fund's investment policies will govern the amount of total assets that it may invest in any one issuer or in issuers within the same industry. For purposes of these limitations, a fund generally will treat the borrower as the "issuer" of indebtedness held by the fund. In the case of loan participations in which a bank or other lending institution serves as financial intermediary between a fund and the borrower, if the participation does not shift to the fund the direct debtor-creditor relationship with the borrower, SEC interpretations require the fund, in some circumstances, to treat

both the lending bank or other lending institution and the borrower as “issuers” for purposes of the fund’s investment policies. Treating a financial intermediary as an issuer of indebtedness may restrict a fund’s ability to invest in indebtedness related to a single financial intermediary, or a group of intermediaries engaged in the same industry, even if the underlying borrowers represent many different companies and industries.

Market Disruption. Significant market disruptions, such as those caused by pandemics, natural or environmental disasters, war, acts of terrorism, or other events, can adversely affect local and global markets and normal market operations. Market disruptions may exacerbate political, social, and economic risks discussed above and in a fund’s prospectus. Additionally, market disruptions may result in increased market volatility; regulatory trading halts; closure of domestic or foreign exchanges, markets, or governments; or market participants operating pursuant to business continuity plans for indeterminate periods of time. Such events can be highly disruptive to economies and markets and significantly impact individual companies, sectors, industries, markets, currencies, interest and inflation rates, credit ratings, investor sentiment, and other factors affecting the value of a fund’s investments and operation of a fund. These events could also result in the closure of businesses that are integral to a fund’s operations or otherwise disrupt the ability of employees of fund service providers to perform essential tasks on behalf of a fund.

Mortgage-Backed Securities. Mortgage-backed securities represent direct or indirect participation in, or are collateralized by and payable from, mortgage loans secured by real property or instruments derived from such loans and may be based on different types of mortgages, including those on residential properties or commercial real estate. Mortgage-backed securities include various types of securities, such as government stripped mortgage-backed securities, adjustable rate mortgage-backed securities, and collateralized mortgage obligations.

Generally, mortgage-backed securities represent partial interests in pools of mortgage loans assembled for sale to investors by various governmental agencies, such as the Government National Mortgage Association (GNMA); by government-related organizations, such as the Federal National Mortgage Association (FNMA) and the Federal Home Loan Mortgage Corporation (FHLMC); and by private issuers, such as commercial banks, savings and loan institutions, and mortgage bankers. The average maturity of pass-through pools of mortgage-backed securities in which a fund may invest varies with the maturities of the underlying mortgage instruments. In addition, a pool’s average maturity may be shortened by unscheduled payments on the underlying mortgages. Factors affecting mortgage prepayments include the level of interest rates, the general economic and social conditions, the location of the mortgaged property, and the age of the mortgage. Because prepayment rates of individual mortgage pools vary widely, the average life of a particular pool cannot be predicted accurately.

Mortgage-backed securities may be classified as private, government, or government-related, depending on the issuer or guarantor. Private mortgage-backed securities represent interest in pass-through pools consisting principally of conventional residential or commercial mortgage loans created by nongovernment issuers, such as commercial banks, savings and loan associations, and private mortgage insurance companies. Private mortgage-backed securities may not be readily marketable. In addition, mortgage-backed securities have been subject to greater liquidity risk when worldwide economic and liquidity conditions deteriorate. U.S. government mortgage-backed securities are backed by the full faith and credit of the U.S. government. GNMA, the principal U.S. guarantor of these securities, is a wholly owned U.S. government corporation within the Department of Housing and Urban Development. Government-related mortgage-backed securities are not backed by the full faith and credit of the U.S. government. Issuers include FNMA and FHLMC, which are congressionally chartered corporations. In September 2008, the U.S. Treasury placed FNMA and FHLMC under conservatorship and appointed the Federal Housing Finance Agency (FHFA) to manage their daily operations. In addition, the U.S. Treasury entered into purchase agreements with FNMA and FHLMC to provide them with capital in exchange for senior preferred stock. Pass-through securities issued by FNMA are guaranteed as to timely payment of principal and interest by FNMA. Participation certificates representing interests in mortgages from FHLMC’s national portfolio are guaranteed as to the timely payment of interest and principal by FHLMC. Private, government, or government-related entities may create mortgage loan pools offering pass-through investments in addition to those described above. The mortgages underlying these securities may be alternative mortgage instruments (i.e., mortgage instruments whose principal or interest payments may vary or whose terms to maturity may be shorter than customary).

Mortgage-backed securities are often subject to more rapid repayment than their stated maturity date would indicate as a result of the pass-through of prepayments of principal on the underlying loans. Prepayments of principal by mortgagors or mortgage foreclosures shorten the term of the mortgage pool underlying the mortgage-backed security. A fund’s ability to maintain positions in mortgage-backed securities is affected by the reductions in the principal amount of such securities resulting from prepayments. A fund’s ability to reinvest prepayments of principal at comparable yield is subject to generally prevailing interest rates at that time. The values of mortgage-backed securities vary with changes

in market interest rates generally and the differentials in yields among various kinds of government securities, mortgage-backed securities, and asset-backed securities. In periods of rising interest rates, the rate of prepayment tends to decrease, thereby lengthening the average life of a pool of mortgages supporting a mortgage-backed security. Conversely, in periods of falling interest rates, the rate of prepayment tends to increase, thereby shortening the average life of such a pool. Because prepayments of principal generally occur when interest rates are declining, an investor, such as a fund, generally has to reinvest the proceeds of such prepayments at lower interest rates than those at which its assets were previously invested. Therefore, mortgage-backed securities have less potential for capital appreciation in periods of falling interest rates than other income-bearing securities of comparable maturity.

Mortgage-Backed Securities—Adjustable Rate Mortgage-Backed Securities. Adjustable rate mortgage-backed securities (ARMBSs) have interest rates that reset at periodic intervals. Acquiring ARMBSs permits a fund to participate in increases in prevailing current interest rates through periodic adjustments in the coupons of mortgages underlying the pool on which ARMBSs are based. Such ARMBSs generally have higher current yield and lower price fluctuations than is the case with more traditional fixed income debt securities of comparable rating and maturity. However, because the interest rates on ARMBSs are reset only periodically, changes in market interest rates or in the issuer's creditworthiness may affect their value. In addition, when prepayments of principal are made on the underlying mortgages during periods of rising interest rates, a fund can reinvest the proceeds of such prepayments at rates higher than those at which they were previously invested. Mortgages underlying most ARMBSs, however, have limits on the allowable annual or lifetime increases that can be made in the interest rate that the mortgagor pays. Therefore, if current interest rates rise above such limits over the period of the limitation, a fund holding an ARMBS does not benefit from further increases in interest rates. Moreover, when interest rates are in excess of coupon rates (i.e., the rates being paid by mortgagors) of the mortgages, ARMBSs behave more like fixed income securities and less like adjustable rate securities and are thus subject to the risks associated with fixed income securities. In addition, during periods of rising interest rates, increases in the coupon rate of adjustable rate mortgages generally lag current market interest rates slightly, thereby creating the potential for capital depreciation on such securities.

Mortgage-Backed Securities—Collateralized Mortgage Obligations. Collateralized mortgage obligations (CMOs) are mortgage-backed securities that are collateralized by whole loan mortgages or mortgage pass-through securities. The bonds issued in a CMO transaction are divided into groups, and each group of bonds is referred to as a "tranche." Under the traditional CMO structure, the cash flows generated by the mortgages or mortgage pass-through securities in the collateral pool are used to first pay interest and then pay principal to the CMO bondholders. The bonds issued under a traditional CMO structure are retired sequentially as opposed to the pro-rata return of principal found in traditional pass-through obligations. Subject to the various provisions of individual CMO issues, the cash flow generated by the underlying collateral (to the extent it exceeds the amount required to pay the stated interest) is used to retire the bonds. Under a CMO structure, the repayment of principal among the different tranches is prioritized in accordance with the terms of the particular CMO issuance. The "fastest-pay" tranches of bonds, as specified in the prospectus for the issuance, would initially receive all principal payments. When those tranches of bonds are retired, the next tranche (or tranches) in the sequence, as specified in the prospectus, receives all of the principal payments until that tranche is retired. The sequential retirement of bond groups continues until the last tranche is retired. Accordingly, the CMO structure allows the issuer to use cash flows of long-maturity, monthly pay collateral to formulate securities with short, intermediate, and long final maturities and expected average lives and risk characteristics.

In recent years, new types of CMO tranches have evolved. These include floating rate CMOs, planned amortization classes, accrual bonds, and CMO residuals. These newer structures affect the amount and timing of principal and interest received by each tranche from the underlying collateral. Under certain of these new structures, given classes of CMOs have priority over others with respect to the receipt of prepayments on the mortgages. Therefore, depending on the type of CMOs in which a fund invests, the investment may be subject to a greater or lesser risk of prepayment than other types of mortgage-backed securities.

CMOs may include real estate mortgage investment conduits (REMICs). REMICs, which were authorized under the Tax Reform Act of 1986, are private entities formed for the purpose of holding a fixed pool of mortgages secured by an interest in real property. A REMIC is a CMO that qualifies for special tax treatment under the IRC and invests in certain mortgages principally secured by interests in real property. Investors may purchase beneficial interests in REMICs, which are known as "regular" interests, or "residual" interests. Guaranteed REMIC pass-through certificates (REMIC Certificates) issued by FNMA or FHLMC represent beneficial ownership interests in a REMIC trust consisting principally of mortgage loans or FNMA, FHLMC, or GNMA-guaranteed mortgage pass-through certificates. For FHLMC REMIC Certificates, FHLMC guarantees the timely payment of interest and also guarantees the payment of principal, as payments are required to be made on the underlying mortgage participation certificates. FNMA REMIC Certificates are issued and guaranteed as to timely distribution of principal and interest by FNMA.

The primary risk of CMOs is the uncertainty of the timing of cash flows that results from the rate of prepayments on the underlying mortgages serving as collateral and from the structure of the particular CMO transaction (i.e., the priority of the individual tranches). An increase or decrease in prepayment rates (resulting from a decrease or increase in mortgage interest rates) will affect the yield, the average life, and the price of CMOs. The prices of certain CMOs, depending on their structure and the rate of prepayments, can be volatile. Some CMOs may also not be as liquid as other securities.

Mortgage-Backed Securities—Hybrid ARMs. A hybrid adjustable rate mortgage (hybrid ARM) is a type of mortgage in which the interest rate is fixed for a specified period and then resets periodically, or floats, for the remaining mortgage term. Hybrid ARMs are usually referred to by their fixed and floating periods. For example, a 5/1 ARM refers to a mortgage with a 5-year fixed interest rate period, followed by a 1-year interest rate adjustment period. During the initial interest period (i.e., the initial five years for a 5/1 hybrid ARM), hybrid ARMs behave more like fixed income securities and are thus subject to the risks associated with fixed income securities. All hybrid ARMs have reset dates. A reset date is the date when a hybrid ARM changes from a fixed interest rate to a floating interest rate. At the reset date, a hybrid ARM can adjust by a maximum specified amount based on a margin over an identified index. Like ARMBSs, hybrid ARMs have periodic and lifetime limitations on the increases that can be made to the interest rates that mortgagors pay. Therefore, if during a floating rate period interest rates rise above the interest rate limits of the hybrid ARM, a fund holding the hybrid ARM does not benefit from further increases in interest rates.

Mortgage-Backed Securities—Mortgage Dollar Rolls. A mortgage dollar roll is a transaction in which a fund sells a mortgage-backed security to a dealer and simultaneously agrees to purchase a similar security (but not the same security) in the future at a predetermined price. A mortgage-dollar-roll program may be structured to simulate an investment in mortgage-backed securities at a potentially lower cost, or with potentially reduced administrative burdens, than directly holding mortgage-backed securities. For accounting purposes, each transaction in a mortgage dollar roll is viewed as a separate purchase and sale of a mortgage-backed security. These transactions may increase a fund's portfolio turnover rate. The fund receives cash for a mortgage-backed security in the initial transaction and enters into an agreement that requires the fund to purchase a similar mortgage-backed security in the future.

The counterparty with which a fund enters into a mortgage-dollar-roll transaction is obligated to provide the fund with similar securities to purchase as those originally sold by the fund. These securities generally must (1) be issued by the same agency and be part of the same program; (2) have similar original stated maturities; (3) have identical net coupon rates; and (4) satisfy "good delivery" requirements, meaning that the aggregate principal amounts of the securities delivered and received back must be within a certain percentage of the initial amount delivered. Mortgage dollar rolls will be used only if consistent with a fund's investment objective and strategies and will not be used to change a fund's risk profile.

Mortgage-Backed Securities—Stripped Mortgage-Backed Securities. Stripped mortgage-backed securities (SMBSs) are derivative multiclass mortgage-backed securities. SMBSs may be issued by agencies or instrumentalities of the U.S. government or by private originators of, or investors in, mortgage loans, including savings and loan associations, mortgage banks, commercial banks, investment banks, and special purpose entities formed or sponsored by any of the foregoing.

SMBSs are usually structured with two classes that receive different proportions of the interest and principal distributions on a pool of mortgage assets. A common type of SMBS will have one class receiving some of the interest and most of the principal from the mortgage assets, while the other class will receive most of the interest and the remainder of the principal. In the most extreme case, one class will receive all of the interest (the "IO" class), while the other class will receive all of the principal (the principal-only or "PO" class). The price and yield to maturity on an IO class are extremely sensitive to the rate of principal payments (including prepayments) on the related underlying mortgage assets, and a rapid rate of principal payments may have a material adverse effect on a fund's yield to maturity from these securities. If the underlying mortgage assets experience greater than anticipated prepayments of principal, a fund may fail to recoup some or all of its initial investment in these securities, even if the security is in one of the highest rating categories.

Although SMBSs are purchased and sold by institutional investors through several investment banking firms acting as brokers or dealers, these securities were only recently developed. As a result, established trading markets have not yet developed, and accordingly, these securities may be deemed "illiquid" and thus subject to a fund's limitations on investment in illiquid securities.

Mortgage-Backed Securities—To Be Announced (TBA) Securities. A TBA securities transaction, which is a type of forward-commitment transaction, represents an agreement to buy or sell mortgage-backed securities with agreed-upon

characteristics for a fixed unit price, with settlement on a scheduled future date, typically within 30 calendar days of the trade date. With TBA transactions, the particular securities (i.e., specified mortgage pools) to be delivered or received are not identified at the trade date; however, securities delivered to a purchaser must meet specified criteria, including face value, coupon rate, and maturity, and be within industry-accepted "good delivery" standards. A fund may sell TBA securities to hedge its portfolio positions or to dispose of mortgage-backed securities it owns under delayed-delivery arrangements. Proceeds of TBA securities sold are not received until the contractual settlement date. For TBA purchases, a fund will maintain sufficient liquid assets (e.g., cash or marketable securities) until settlement date in an amount sufficient to meet the purchase price. Unsettled TBA securities are valued by an independent pricing service based on the characteristics of the securities to be delivered or received. A risk associated with TBA transactions is that at settlement, either the buyer fails to pay the agreed price for the securities or the seller fails to deliver the agreed securities. As the value of such unsettled TBA securities is assessed on a daily basis, parties mitigate such risk by, among other things, exchanging collateral as security for performance, performing a credit analysis of the counterparty, allocating transactions among numerous counterparties, and monitoring its exposure to each counterparty.

Options. An option is a derivative. An option on a security (or index) is a contract that gives the holder of the option, in return for the payment of a "premium," the right, but not the obligation, to buy from (in the case of a call option) or sell to (in the case of a put option) the writer of the option the security underlying the option (or the cash value of the index) at a specified exercise price prior to the expiration date of the option. The writer of an option on a security has the obligation upon exercise of the option to deliver the underlying security upon payment of the exercise price (in the case of a call option) or to pay the exercise price upon delivery of the underlying security (in the case of a put option). The writer of an option on an index has the obligation upon exercise of the option to pay an amount equal to the cash value of the index minus the exercise price, multiplied by the specified multiplier for the index option. The multiplier for an index option determines the size of the investment position the option represents. Unlike exchange-traded options, which are standardized with respect to the underlying instrument, expiration date, contract size, and strike price, the terms of over-the-counter (OTC) options (options not traded on exchanges) generally are established through negotiation with the other party to the option contract. Although this type of arrangement allows the purchaser or writer greater flexibility to tailor an option to its needs, OTC options generally involve credit risk to the counterparty, whereas for exchange-traded, centrally cleared options, credit risk is mutualized through the involvement of the applicable clearing house.

The buyer (or holder) of an option is said to be "long" the option, while the seller (or writer) of an option is said to be "short" the option. A call option grants to the holder the right to buy (and obligates the writer to sell) the underlying security at the strike price, which is the predetermined price at which the option may be exercised. A put option grants to the holder the right to sell (and obligates the writer to buy) the underlying security at the strike price. The purchase price of an option is called the "premium." The potential loss to an option buyer is limited to the amount of the premium plus transaction costs. This will be the case if the option is held and not exercised prior to its expiration date. Generally, an option writer sells options with the goal of obtaining the premium paid by the option buyer, but that person could also seek to profit from an anticipated rise or decline in option prices. If an option sold by an option writer expires without being exercised, the writer retains the full amount of the premium. The option writer, however, has unlimited economic risk because its potential loss, except to the extent offset by the premium received when the option was written, is equal to the amount the option is "in-the-money" at the expiration date. A call option is in-the-money if the value of the underlying position exceeds the exercise price of the option. A put option is in-the-money if the exercise price of the option exceeds the value of the underlying position. Generally, any profit realized by an option buyer represents a loss for the option writer. The writing of an option will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

If a trading market, in particular options, were to become unavailable, investors in those options (such as the funds) would be unable to close out their positions until trading resumes, and they may be faced with substantial losses if the value of the underlying instrument moves adversely during that time. Even if the market were to remain available, there may be times when options prices will not maintain their customary or anticipated relationships to the prices of the underlying instruments and related instruments. Lack of investor interest, changes in volatility, or other factors or conditions might adversely affect the liquidity, efficiency, continuity, or even the orderliness of the market for particular options.

A fund bears the risk that its advisor will not accurately predict future market trends. If the advisor attempts to use an option as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the

option will have or will develop imperfect or no correlation with the portfolio investment, which could cause substantial losses for the fund. Although hedging strategies involving options can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many options, in particular OTC options, are complex and often valued based on subjective factors. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

OTC Swap Agreements. An over-the-counter (OTC) swap agreement, which is a type of derivative, is an agreement between two parties (counterparties) to exchange payments at specified dates (periodic payment dates) on the basis of a specified amount (notional amount) with the payments calculated with reference to a specified asset, reference rate, or index.

Examples of OTC swap agreements include, but are not limited to, interest rate swaps, credit default swaps, equity swaps, commodity swaps, foreign currency swaps, index swaps, excess return swaps, and total return swaps. Most OTC swap agreements provide that when the periodic payment dates for both parties are the same, payments are netted and only the net amount is paid to the counterparty entitled to receive the net payment. Consequently, a fund's current obligations (or rights) under an OTC swap agreement will generally be equal only to the net amount to be paid or received under the agreement, based on the relative values of the positions held by each counterparty. OTC swap agreements allow for a wide variety of transactions. For example, fixed rate payments may be exchanged for floating rate payments; U.S. dollar-denominated payments may be exchanged for payments denominated in a different currency; and payments tied to the price of one asset, reference rate, or index may be exchanged for payments tied to the price of another asset, reference rate, or index.

An OTC option on an OTC swap agreement, also called a "swaption," is an option that gives the buyer the right, but not the obligation, to enter into a swap on a future date in exchange for paying a market-based "premium." A receiver swaption gives the owner the right to receive the total return of a specified asset, reference rate, or index. A payer swaption gives the owner the right to pay the total return of a specified asset, reference rate, or index. Swaptions also include options that allow an existing swap to be terminated or extended by one of the counterparties.

The use of OTC swap agreements by a fund entails certain risks, which may be different from, or possibly greater than, the risks associated with investing directly in the securities and other investments that are the referenced asset for the swap agreement. OTC swaps are highly specialized instruments that require investment techniques, risk analyses, and tax planning different from those associated with stocks, bonds, and other traditional investments. The use of an OTC swap requires an understanding not only of the referenced asset, reference rate, or index but also of the swap itself, without the benefit of observing the performance of the swap under all possible market conditions.

OTC swap agreements may be subject to liquidity risk, which exists when a particular swap is difficult to purchase or sell. If an OTC swap transaction is particularly large or if the relevant market is illiquid (as is the case with many OTC swaps), it may not be possible to initiate a transaction or liquidate a position at an advantageous time or price, which may result in significant losses. In addition, OTC swap transactions may be subject to a fund's limitation on investments in illiquid securities.

OTC swap agreements may be subject to pricing risk, which exists when a particular swap becomes extraordinarily expensive or inexpensive relative to historical prices or the prices of corresponding cash market instruments. Under certain market conditions, it may not be economically feasible to initiate a transaction or liquidate a position in time to avoid a loss or take advantage of an opportunity or to realize the intrinsic value of the OTC swap agreement.

Because certain OTC swap agreements have a leverage component, adverse changes in the value or level of the underlying asset, reference rate, or index can result in a loss substantially greater than the amount invested in the swap itself. Certain OTC swaps have the potential for unlimited loss, regardless of the size of the initial investment. A leveraged OTC swap transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

Like most other investments, OTC swap agreements are subject to the risk that the market value of the instrument will change in a way detrimental to a fund's interest. A fund bears the risk that its advisor will not accurately forecast future market trends or the values of assets, reference rates, indexes, or other economic factors in establishing OTC swap positions for the fund. If the advisor attempts to use an OTC swap as a hedge against, or as a substitute for, a portfolio investment, the fund will be exposed to the risk that the OTC swap will have or will develop imperfect or no correlation

with the portfolio investment. This could cause substantial losses for the fund. Although hedging strategies involving OTC swap instruments can reduce the risk of loss, they can also reduce the opportunity for gain or even result in losses by offsetting favorable price movements in other fund investments. Many OTC swaps are complex and often valued subjectively. Improper valuations can result in increased cash payment requirements to counterparties or a loss of value to a fund.

The use of an OTC swap agreement also involves the risk that a loss may be sustained as a result of the insolvency or bankruptcy of the counterparty or the failure of the counterparty to make required payments or otherwise comply with the terms of the agreement. Additionally, the use of credit default swaps can result in losses if a fund's advisor does not correctly evaluate the creditworthiness of the issuer on which the credit swap is based.

Other Investment Companies. A fund may invest in other investment companies to the extent permitted by applicable law or SEC exemption. Under Section 12(d)(1) of the 1940 Act, a fund may invest up to 10% of its assets in shares of investment companies generally and up to 5% of its assets in any one investment company, as long as no investment represents more than 3% of the voting stock of an acquired investment company. In addition, no funds for which Vanguard acts as an advisor may, in the aggregate, own more than 10% of the voting stock of a closed-end investment company. The 1940 Act and related rules provide certain exemptions from these restrictions, for example, for funds that invest in other funds within the same group of investment companies. If a fund invests in other investment companies, shareholders will bear not only their proportionate share of the fund's expenses (including operating expenses and the fees of the advisor), but they also may indirectly bear similar expenses of the underlying investment companies. Certain investment companies, such as business development companies (BDCs), are more akin to operating companies and, as such, their expenses are not direct expenses paid by fund shareholders and are not used to calculate the fund's net asset value. SEC rules nevertheless require that any expenses incurred by a BDC be included in a fund's expense ratio as "Acquired Fund Fees and Expenses." The expense ratio of a fund that holds a BDC will thus overstate what the fund actually spends on portfolio management, administrative services, and other shareholder services by an amount equal to these Acquired Fund Fees and Expenses. The Acquired Fund Fees and Expenses are not included in a fund's financial statements, which provide a clearer picture of a fund's actual operating expenses. Shareholders would also be exposed to the risks associated not only with the investments of the fund but also with the portfolio investments of the underlying investment companies. Certain types of investment companies, such as closed-end investment companies, issue a fixed number of shares that typically trade on a stock exchange or over-the-counter at a premium or discount to their net asset value. Others are continuously offered at net asset value but also may be traded on the secondary market.

A fund may be limited to purchasing a particular share class of other investment companies (underlying funds). In certain cases, an investor may be able to purchase lower-cost shares of such underlying funds separately, and therefore be able to construct, and maintain over time, a similar portfolio of investments while incurring lower overall expenses.

Preferred Stock. Preferred stock represents an equity or ownership interest in an issuer. Preferred stock normally pays dividends at a specified rate and has precedence over common stock in the event the issuer is liquidated or declares bankruptcy. However, in the event an issuer is liquidated or declares bankruptcy, the claims of owners of bonds take precedence over the claims of those who own preferred and common stock. Preferred stock, unlike common stock, often has a stated dividend rate payable from the corporation's earnings. Preferred stock dividends may be cumulative or noncumulative, participating, or auction rate. "Cumulative" dividend provisions require all or a portion of prior unpaid dividends to be paid before dividends can be paid to the issuer's common stock. "Participating" preferred stock may be entitled to a dividend exceeding the stated dividend in certain cases. If interest rates rise, the fixed dividend on preferred stocks may be less attractive, causing the price of such stocks to decline. Preferred stock may have mandatory sinking fund provisions, as well as provisions allowing the stock to be called or redeemed, which can limit the benefit of a decline in interest rates. Preferred stock is subject to many of the risks to which common stock and debt securities are subject. In addition, preferred stock may be subject to more abrupt or erratic price movements than common stock or debt securities because preferred stock may trade with less frequency and in more limited volume.

Private Equity. Private equity is equity capital that is not quoted on a public exchange. Acquiring private equity involves making investments directly into private companies or conducting buyouts of public companies that result in a delisting of public equity. Capital for private equity can be used to fund new technologies, expand working capital within an owned company, make acquisitions, or to strengthen a balance sheet. Private equity securities should be regarded as

illiquid, as they are not listed on an exchange and generally are not widely transferable. By their nature, investments in privately held companies tend to be riskier than investments in publicly traded companies. Generally, there will be no readily available market for private equity investments and, accordingly, most such investments are difficult to value and can be difficult to exit.

Real Estate Investment Trusts (REITs). An equity REIT owns real estate properties directly and generates income from rental and lease payments. Equity REITs also have the potential to generate capital gains as properties are sold at a profit. A mortgage REIT makes construction, development, and long-term mortgage loans to commercial real estate developers and earns interest income on these loans. A hybrid REIT holds both properties and mortgages. To avoid taxation at the corporate level, REITs must distribute most of their earnings to shareholders.

Investments in REITs are subject to many of the same risks as direct investments in real estate. In general, real estate values can be affected by a variety of factors, including, but not limited to, supply and demand for properties, general or local economic conditions, and the strength of specific industries that rent properties. Ultimately, a REIT's performance depends on the types and locations of the properties it owns and on how well the REIT manages its properties. For example, rental income could decline because of extended vacancies, increased competition from nearby properties, tenants' failure to pay rent, regulatory limitations on rents, fluctuations in rental income, variations in market rental rates, or incompetent management. Property values could decrease because of overbuilding in the area, environmental liabilities, uninsured damages caused by natural disasters, a general decline in the neighborhood, losses because of casualty or condemnation, increases in property taxes, or changes in zoning laws.

The value of a REIT may also be affected by changes in interest rates. Rising interest rates generally increase the cost of financing for real estate projects, which could cause the value of an equity REIT to decline. During periods of declining interest rates, mortgagors may elect to prepay mortgages held by mortgage REITs, which could lower or diminish the yield on the REIT. REITs are also subject to heavy cash-flow dependency, default by borrowers, and changes in tax and regulatory requirements. In addition, a REIT may fail to meet the requirements for qualification and taxation as a REIT under the IRC and/or fail to maintain exemption from the 1940 Act.

Reliance on Service Providers, Data Providers, and Other Technology. Vanguard funds rely upon the performance of service providers to execute several key functions, which may include functions integral to a fund's operations. Failure by any service provider to carry out its obligations to a fund could disrupt the business of the fund and could have an adverse effect on the fund's performance. A fund's service providers' reliance on certain technology or information vendors (e.g., trading systems, investment analysis tools, benchmark analytics, and tax and accounting tools) could also adversely affect a fund and its shareholders. For example, a fund's investment advisor may use models and/or data with respect to potential investments for the fund. When models or data prove to be incorrect or incomplete, any decisions made in reliance upon such models or data expose a fund to potential risks.

Repurchase Agreements. A repurchase agreement is an agreement under which a fund acquires a debt security (generally a security issued by the U.S. government or an agency thereof, a banker's acceptance, or a certificate of deposit) from a bank, a broker, or a dealer and simultaneously agrees to resell such security to the seller at an agreed-upon price and date (normally, the next business day). Because the security purchased constitutes collateral for the repurchase obligation, a repurchase agreement may be considered a loan that is collateralized by the security purchased. The resale price reflects an agreed-upon interest rate effective for the period the instrument is held by a fund and is unrelated to the interest rate on the underlying instrument. In these transactions, the securities acquired by a fund (including accrued interest earned thereon) must have a total value in excess of the value of the repurchase agreement and be held by a custodian bank until repurchased. In addition, the investment advisor will monitor a fund's repurchase agreement transactions generally and will evaluate the creditworthiness of any bank, broker, or dealer party to a repurchase agreement relating to a fund. The aggregate amount of any such agreements is not limited, except to the extent required by law.

The use of repurchase agreements involves certain risks. One risk is the seller's ability to pay the agreed-upon repurchase price on the repurchase date. If the seller defaults, the fund may incur costs in disposing of the collateral, which would reduce the amount realized thereon. If the seller seeks relief under bankruptcy laws, the disposition of the collateral may be delayed or limited. For example, if the other party to the agreement becomes insolvent and subject to liquidation or reorganization under bankruptcy or other laws, a court may determine that the underlying security is collateral for a loan by the fund not within its control, and therefore the realization by the fund on such collateral may be automatically stayed. Finally, it is possible that the fund may not be able to substantiate its interest in the underlying security and may be deemed an unsecured creditor of the other party to the agreement.

Restricted and Illiquid Securities. Illiquid securities are investments that a fund reasonably expects cannot be sold or disposed of in current market conditions in seven calendar days or less without the sale or disposition significantly changing the market value of the investment. The SEC generally limits aggregate holdings of illiquid securities by a mutual fund to 15% of its net assets (5% for money market funds). A fund may experience difficulty valuing and selling illiquid securities and, in some cases, may be unable to value or sell certain illiquid securities for an indefinite period of time. Illiquid securities may include a wide variety of investments, such as (1) repurchase agreements maturing in more than seven days (unless the agreements have demand/redemption features), (2) OTC options contracts and certain other derivatives (including certain swap agreements), (3) fixed time deposits that are not subject to prepayment or do not provide for withdrawal penalties upon prepayment (other than overnight deposits), (4) certain loan interests and other direct debt instruments, (5) certain municipal lease obligations, (6) private equity investments, (7) commercial paper issued pursuant to Section 4(a)(2) of the 1933 Act, and (8) securities whose disposition is restricted under the federal securities laws. Illiquid securities may include restricted, privately placed securities that, under the federal securities laws, generally may be resold only to qualified institutional buyers. If a substantial market develops for a restricted security held by a fund, it may be treated as a liquid security in accordance with procedures and guidelines approved by the board of trustees. This generally includes securities that are unregistered, that can be sold to qualified institutional buyers in accordance with Rule 144A under the 1933 Act, or that are exempt from registration under the 1933 Act, such as commercial paper. Although a fund's advisor monitors the liquidity of restricted securities, the board of trustees oversees and retains ultimate responsibility for the advisor's liquidity determinations. Several factors that the trustees consider in monitoring these decisions include the valuation of a security; the availability of qualified institutional buyers, brokers, and dealers that trade in the security; and the availability of information about the security's issuer.

Reverse Repurchase Agreements. In a reverse repurchase agreement, a fund sells a security to another party, such as a bank or broker-dealer, in return for cash and agrees to repurchase that security at an agreed-upon price and time. Under a reverse repurchase agreement, the fund continues to receive any principal and interest payments on the underlying security during the term of the agreement. Reverse repurchase agreements involve the risk that the market value of securities retained by the fund may decline below the repurchase price of the securities sold by the fund that it is obligated to repurchase. In addition to the risk of such a loss, fees charged to the fund may exceed the return the fund earns from investing the proceeds received from the reverse repurchase agreement transaction. A reverse repurchase agreement may be considered a borrowing transaction for purposes of the 1940 Act. A reverse repurchase agreement transaction will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by a fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing*." A fund will enter into reverse repurchase agreements only with parties whose creditworthiness has been reviewed and found satisfactory by the advisor. If the buyer in a reverse repurchase agreement becomes insolvent or files for bankruptcy, a fund's use of proceeds from the sale may be restricted while the other party or its trustee or receiver determines if it will honor the fund's right to repurchase the securities. If the fund is unable to recover the securities it sold in a reverse repurchase agreement, it would realize a loss equal to the difference between the value of the securities and the payment it received for them.

Securities Lending. A fund may lend its securities to financial institutions (typically brokers, dealers, and banks) to generate income for the fund. There are certain risks associated with lending securities, including counterparty, credit, market, regulatory, and operational risks. The advisor considers the creditworthiness of the borrower, among other factors, in making decisions with respect to the lending of securities, subject to oversight by the board of trustees. If the borrower defaults on its obligation to return the securities lent because of insolvency or other reasons, a fund could experience delays and costs in recovering the securities lent or in gaining access to the collateral. These delays and costs could be greater for certain types of foreign securities, as well as certain types of borrowers that are subject to global regulatory regimes. If a fund is not able to recover the securities lent, the fund may sell the collateral and purchase a replacement security in the market. Collateral investments are subject to market appreciation or depreciation. The value of the collateral could decrease below the value of the replacement investment by the time the replacement investment is purchased. Currently, a fund invests cash collateral into Vanguard Market Liquidity Fund, an affiliated money market fund that invests in high-quality, short-term money market instruments.

The terms and the structure of the loan arrangements, as well as the aggregate amount of securities loans, must be consistent with the 1940 Act and the rules or interpretations of the SEC thereunder. These provisions limit the amount of securities a fund may lend to 33⅓% of the fund's total assets and require that (1) the borrower pledge and maintain with the fund collateral consisting of cash, an irrevocable letter of credit, or securities issued or guaranteed by the U.S. government having at all times not less than 100% of the value of the securities lent; (2) the borrower add to such collateral whenever the price of the securities lent rises (i.e., the borrower "marks to market" on a daily basis); (3) the

loan be made subject to termination by the fund at any time; and (4) the fund receives reasonable interest on the loan (which may include the fund investing any cash collateral in interest-bearing short-term investments), any distribution on the lent securities, and any increase in their market value. Loan arrangements made by a fund will comply with any other applicable regulatory requirements. At the present time, the SEC does not object if an investment company pays reasonable negotiated fees in connection with lent securities, so long as such fees are set forth in a written contract and approved by the investment company's trustees. In addition, voting rights pass with the lent securities, but if a fund has knowledge that a material event will occur affecting securities on loan, and in respect to which the holder of the securities will be entitled to vote or consent, the lender must be entitled to call the loaned securities in time to vote or consent. A fund bears the risk that there may be a delay in the return of the securities, which may impair the fund's ability to vote on such a matter. See *Tax Status of the Funds* for information about certain tax consequences related to a fund's securities lending activities.

Pursuant to Vanguard's securities lending policy, Vanguard's fixed income and money market funds are not permitted to, and do not, lend their investment securities.

Tax Matters—Federal Tax Discussion. Discussion herein of U.S. federal income tax matters summarizes some of the important, generally applicable U.S. federal tax considerations relevant to investment in a fund based on the IRC, U.S. Treasury regulations, and other applicable authorities. These authorities are subject to change by legislative, administrative, or judicial action, possibly with retroactive effect. Each Fund has not requested and will not request an advance ruling from the Internal Revenue Service (IRS) as to the U.S. federal income tax matters discussed in this Statement of Additional Information. In some cases, a fund's tax position may be uncertain under current tax law and an adverse determination or future guidance by the IRS with respect to such a position could adversely affect the fund and its shareholders, including the fund's ability to continue to qualify as a regulated investment company or to continue to pursue its current investment strategy. A shareholder should consult his or her tax professional for information regarding the particular situation and the possible application of U.S. federal, state, local, foreign, and other taxes.

Tax Matters—Federal Tax Treatment of Derivatives, Hedging, and Related Transactions. A fund's transactions in derivative instruments (including, but not limited to, options, futures, forward contracts, and swap agreements), as well as any of the fund's hedging, short sale, securities loan, or similar transactions, may be subject to one or more special tax rules that accelerate income to the fund, defer losses to the fund, cause adjustments in the holding periods of the fund's securities, convert long-term capital gains into short-term capital gains, or convert short-term capital losses into long-term capital losses. These rules could therefore affect the amount, timing, and character of distributions to shareholders.

Because these and other tax rules applicable to these types of transactions are in some cases uncertain under current law, an adverse determination or future guidance by the IRS with respect to these rules (which determination or guidance could be retroactive) may affect whether a fund has made sufficient distributions, and otherwise satisfied the relevant requirements, to maintain its qualification as a regulated investment company and avoid a fund-level tax.

Tax Matters—Federal Tax Treatment of Futures Contracts. For federal income tax purposes, a fund generally must recognize, as of the end of each taxable year, any net unrealized gains and losses on certain futures contracts, as well as any gains and losses actually realized during the year. In these cases, any gain or loss recognized with respect to a futures contract is considered to be 60% long-term capital gain or loss and 40% short-term capital gain or loss, without regard to the holding period of the contract. Gains and losses on certain other futures contracts (primarily non-U.S. futures contracts) are not recognized until the contracts are closed and are treated as long-term or short-term, depending on the holding period of the contract. Sales of futures contracts that are intended to hedge against a change in the value of securities held by a fund may affect the holding period of such securities and, consequently, the nature of the gain or loss on such securities upon disposition. A fund may be required to defer the recognition of losses on one position, such as futures contracts, to the extent of any unrecognized gains on a related offsetting position held by the fund.

A fund will distribute to shareholders annually any net capital gains that have been recognized for federal income tax purposes on futures transactions. Such distributions will be combined with distributions of capital gains realized on the fund's other investments, and shareholders will be advised on the nature of the distributions.

Tax Matters—Federal Tax Treatment of Non-U.S. Currency Transactions. Special rules generally govern the federal income tax treatment of a fund's transactions in the following: non-U.S. currencies; non-U.S. currency-denominated debt obligations; and certain non-U.S. currency options, futures contracts, forward contracts, and similar instruments. Accordingly, if a fund engages in these types of transactions it may have ordinary income or loss to the extent that such

income or loss results from fluctuations in the value of the non-U.S. currency concerned. Such ordinary income could accelerate fund distributions to shareholders and increase the distributions taxed to shareholders as ordinary income. Any ordinary loss so created will generally reduce ordinary income distributions and, in some cases, could require the recharacterization of prior ordinary income distributions. Net ordinary losses cannot be carried forward by the fund to offset income or gains realized in subsequent taxable years.

Any gain or loss attributable to the non-U.S. currency component of a transaction engaged in by a fund that is not subject to these special currency rules (such as foreign equity investments other than certain preferred stocks) will generally be treated as a capital gain or loss and will not be segregated from the gain or loss on the underlying transaction.

To the extent a fund engages in non-U.S. currency hedging, the fund may elect or be required to apply other rules that could affect the character, timing, or amount of the fund's gains and losses. For more information, see "*Tax Matters—Federal Tax Treatment of Derivatives, Hedging, and Related Transactions.*"

Tax Matters—Foreign Tax Credit. Foreign governments may withhold taxes on dividends and interest paid with respect to foreign securities held by a fund. Foreign governments may also impose taxes on other payments or gains with respect to foreign securities. If, at the close of its fiscal year, more than 50% of a fund's total assets are invested in securities of foreign issuers, the fund may elect to pass through to shareholders the ability to deduct or, if they meet certain holding period requirements, take a credit for foreign taxes paid by the fund. Similarly, if at the close of each quarter of a fund's taxable year, at least 50% of its total assets consist of interests in other regulated investment companies, the fund is permitted to elect to pass through to its shareholders the foreign income taxes paid by the fund in connection with foreign securities held directly by the fund or held by a regulated investment company in which the fund invests that has elected to pass through such taxes to shareholders.

Tax Matters—Market Discount or Premium. The price of a bond purchased after its original issuance may reflect market discount or premium. Depending on the particular circumstances, market discount may affect the tax character and amount of income required to be recognized by a fund holding the bond. In determining whether a bond is purchased with market discount, certain de minimis rules apply. Premium is generally amortizable over the remaining term of the bond. Depending on the type of bond, premium may affect the amount of income required to be recognized by a fund holding the bond and the fund's basis in the bond.

Tax Matters—Passive Foreign Investment Companies. To the extent that a fund invests in stock in a foreign company, such stock may constitute an equity investment in a passive foreign investment company (PFIC). A foreign company is generally a PFIC if 75% or more of its gross income is passive or if 50% or more of its assets produce passive income. Capital gains on the sale of an interest in a PFIC will be deemed ordinary income regardless of how long a fund held it. Also, a fund may be subject to corporate income tax and an interest charge on certain dividends and capital gains earned in respect to PFIC interests, whether or not such amounts are distributed to shareholders. To avoid such tax and interest, a fund may elect to "mark to market" its PFIC interests, that is, to treat such interests as sold on the last day of a fund's fiscal year, and to recognize any unrealized gains (or losses, to the extent of previously recognized gains) as ordinary income (or loss) each year. Distributions from a fund that are attributable to income or gains earned in respect to PFIC interests are characterized as ordinary income.

Tax Matters—Real Estate Mortgage Investment Conduits. If a fund invests directly or indirectly, including through a REIT or other pass-through entity, in residual interests in real estate mortgage investment conduits (REMICs) or equity interests in taxable mortgage pools (TMPs), a portion of the fund's income that is attributable to a residual interest in a REMIC or an equity interest in a TMP (such portion referred to in the IRC as an "excess inclusion") will be subject to U.S. federal income tax in all events—including potentially at the fund level—under a notice issued by the IRS in October 2006 and U.S. Treasury regulations that have yet to be issued but may apply retroactively. This notice also provides, and the regulations are expected to provide, that excess inclusion income of a registered investment company will be allocated to shareholders of the registered investment company in proportion to the dividends received by such shareholders, with the same consequences as if the shareholders held the related interest directly. In general, excess inclusion income allocated to shareholders (1) cannot be offset by net operating losses (subject to a limited exception for certain thrift institutions); (2) will constitute unrelated business taxable income (UBTI) to entities (including a qualified pension plan, an individual retirement account, a 401(k) plan, a Keogh plan, or other tax-exempt entity) subject to tax on UBTI, thereby potentially requiring such an entity, which otherwise might not be required, to file a tax return and pay tax on such income; and (3) in the case of a non-U.S. investor, will not qualify for any reduction in U.S. federal withholding tax. A shareholder will be subject to U.S. federal income tax on such inclusions notwithstanding any exemption from such income tax otherwise available under the IRC. As a result, a fund investing in such interests may not be suitable for charitable remainder trusts. See "*Tax Matters—Tax-Exempt Investors.*"

Tax Matters—Tax Considerations for Non-U.S. Investors. U.S. withholding and estate taxes and certain U.S. tax reporting requirements may apply to any investments made by non-U.S. investors in Vanguard funds. Certain properly reported distributions of qualifying interest income or short-term capital gain made by a fund to its non-U.S. investors are exempt from U.S. withholding taxes, provided the investors furnish valid tax documentation (i.e., IRS Form W-8) certifying as to their non-U.S. status.

A fund is permitted, but is not required, to report any of its distributions as eligible for such relief, and some distributions (e.g., distributions of interest a fund receives from non-U.S. issuers) are not eligible for this relief. For some funds, Vanguard has chosen to report qualifying distributions and apply the withholding exemption to those distributions when made to non-U.S. shareholders who invest directly with Vanguard. For other funds, Vanguard may choose not to apply the withholding exemption to qualifying fund distributions made to direct shareholders, but may provide the reporting to such shareholders. In these cases, a shareholder may be able to reclaim such withholding tax directly from the IRS.

If shareholders hold fund shares (including ETF shares) through a broker or intermediary, their broker or intermediary may apply this relief to properly reported qualifying distributions made to shareholders with respect to those shares. If a shareholder's broker or intermediary instead collects withholding tax where the fund has provided the proper reporting, the shareholder may be able to reclaim such withholding tax from the IRS. Please consult your broker or intermediary regarding the application of these rules.

This relief does not apply to any withholding required under the Foreign Account Tax Compliance Act (FATCA), which generally requires a fund to obtain information sufficient to identify the status of each of its shareholders. If a shareholder fails to provide this information or otherwise fails to comply with FATCA, a fund may be required to withhold under FATCA at a rate of 30% with respect to that shareholder on fund distributions. Please consult your tax advisor for more information about these rules.

Tax Matters—Tax-Exempt Investors. Income of a fund that would be UBTI if earned directly by a tax-exempt entity will not generally be attributed as UBTI to a tax-exempt shareholder of the fund. Notwithstanding this "blocking" effect, a tax-exempt shareholder could realize UBTI by virtue of its investment in a fund if shares in the fund constitute debt-financed property in the hands of the tax-exempt shareholder within the meaning of IRC Section 514(b).

A tax-exempt shareholder may also recognize UBTI if a fund recognizes "excess inclusion income" derived from direct or indirect investments in residual interests in REMICs or equity interests in TMPs. See "*Tax Matters—Real Estate Mortgage Investment Conduits.*"

In addition, special tax consequences apply to charitable remainder trusts that invest in a fund that invests directly or indirectly in residual interests in REMICs or equity interests in TMPs. Charitable remainder trusts and other tax-exempt investors are urged to consult their tax advisors concerning the consequences of investing in a fund.

Time Deposits. Time deposits are subject to the same risks that pertain to domestic issuers of money market instruments, most notably credit risk (and, to a lesser extent, income risk, market risk, and liquidity risk). Additionally, time deposits of foreign branches of U.S. banks and foreign branches of foreign banks may be subject to certain sovereign risks. One such risk is the possibility that a sovereign country might prevent capital, in the form of U.S. dollars, from flowing across its borders. Other risks include adverse political and economic developments, the extent and quality of government regulation of financial markets and institutions, the imposition of foreign withholding taxes, and expropriation or nationalization of foreign issuers. However, time deposits of such issuers will undergo the same type of credit analysis as domestic issuers in which a Vanguard fund invests and will have at least the same financial strength as the domestic issuers approved for the fund.

Warrants. Warrants are instruments that give the holder the right, but not the obligation, to buy an equity security at a specific price for a specific period of time. Changes in the value of a warrant do not necessarily correspond to changes in the value of its underlying security. The price of a warrant may be more volatile than the price of its underlying security, and a warrant may offer greater potential for capital appreciation as well as capital loss. Warrants do not entitle a holder to dividends or voting rights with respect to the underlying security and do not represent any rights in the assets of the issuing company. A warrant ceases to have value if it is not exercised prior to its expiration date. These factors can make warrants more speculative than other types of investments.

When-Issued, Delayed-Delivery, and Forward-Commitment Transactions. When-issued, delayed-delivery, and forward-commitment transactions involve a commitment to purchase or sell specific securities at a predetermined price or yield in which payment and delivery take place after the customary settlement period for that type of security. Typically, no interest accrues to the purchaser until the security is delivered. When purchasing securities pursuant to

one of these transactions, payment for the securities is not required until the delivery date. However, the purchaser assumes the rights and risks of ownership, including the risks of price and yield fluctuations and the risk that the security will not be issued as anticipated. When a fund has sold a security pursuant to one of these transactions, the fund does not participate in further gains or losses with respect to the security. If the other party to a delayed-delivery transaction fails to deliver or pay for the securities, the fund could miss a favorable price or yield opportunity or suffer a loss. A fund may renegotiate a when-issued or forward-commitment transaction and may sell the underlying securities before delivery, which may result in capital gains or losses for the fund. When-issued, delayed-delivery, and forward-commitment transactions will not be considered to constitute the issuance, by a fund, of a "senior security," as that term is defined in Section 18(g) of the 1940 Act, and therefore such transaction will not be subject to the 300% asset coverage requirement otherwise applicable to borrowings by the fund, if the fund covers the transaction in accordance with the requirements described under the heading "*Borrowing.*"

Regulatory restrictions in India. Shares of Vanguard International Growth Fund, Vanguard Global Wellington Fund, and Vanguard Global Wellesley Income Fund have not been, and will not be, registered under the laws of India and are not intended to benefit from any laws in India promulgated for the protection of shareholders. As a result of regulatory requirements in India, shares of each Fund shall not be knowingly offered to (directly or indirectly) or sold or delivered to (within India); transferred to or purchased by; or held by, for, on the account of, or for the benefit of (i) a "person resident in India" (as defined under applicable Indian law), (ii) an "overseas corporate body" or a "person of Indian origin" (as defined under applicable Indian law), or (iii) any other entity or person disqualified or otherwise prohibited from accessing the Indian securities market under applicable laws, as may be amended from time to time. Investors, prior to purchasing shares of each Fund, must satisfy themselves regarding compliance with these requirements.

SHARE PRICE

Multiple-class funds do not have a single share price. Rather, each class has a share price, called its Net Asset Value, or NAV, that is calculated as of the close of regular trading on the New York Stock Exchange (NYSE), generally 4 p.m., Eastern time, on each day that the NYSE is open for business (a business day). In the rare event the NYSE experiences unanticipated disruptions and is unavailable at the close of the trading day, each Fund reserves the right to treat such day as a business day and calculate NAVs as of the close of regular trading on the Nasdaq (or another alternate exchange if the Nasdaq is unavailable, as determined at Vanguard's discretion), generally 4 p.m., Eastern time. The NAV per share is computed by dividing the total assets, minus liabilities, allocated to the share class by the number of Fund shares outstanding for that class. On U.S. holidays or other days when the NYSE is closed, the NAV is not calculated, and the Funds do not sell or redeem shares. However, on those days the value of a Fund's assets may be affected to the extent that the Fund holds securities that change in value on those days (such as foreign securities that trade on foreign markets that are open).

The NYSE typically observes the following holidays: New Year's Day; Martin Luther King, Jr., Day; Presidents' Day (Washington's Birthday); Good Friday; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; and Christmas Day. Although each Fund expects the same holidays to be observed in the future, the NYSE may modify its holiday schedule or hours of operation at any time.

PURCHASE AND REDEMPTION OF SHARES

Purchase of Shares (Other than ETF Shares)

The purchase price of shares of each Fund is the NAV per share next determined after the purchase request is received in good order, as defined in the Fund's prospectus.

For non-ETF purchases, the Extended Duration Treasury Index Fund charges a 0.50% purchase fee. The purchase fee is paid to the Fund to reimburse it for the transaction costs incurred from purchasing securities. The fee is deducted from all purchases, including exchanges from other Vanguard funds. Information regarding the application of purchase fees is described more fully in the Fund's prospectus.

Exchange of Securities for Shares of a Fund. Shares of a Fund may be purchased "in kind" (i.e., in exchange for securities, rather than for cash) at the discretion of the Fund's portfolio manager. Such securities must not be restricted as to transfer and must have a value that is readily ascertainable. Securities accepted by the Fund will be valued, as set forth in the Fund's prospectus, as of the time of the next determination of NAV after such acceptance. All dividend,

subscription, or other rights that are reflected in the market price of accepted securities at the time of valuation become the property of the Fund and must be delivered to the Fund by the investor upon receipt from the issuer. A gain or loss for federal income tax purposes, depending upon the cost of the securities tendered, would be realized by the investor upon the exchange. Investors interested in purchasing fund shares in kind should contact Vanguard.

Redemption of Shares (Other than ETF Shares)

The redemption price of shares of each Fund is the NAV per share next determined after the redemption request is received in good order, as defined in the Fund's prospectus.

Each Fund can postpone payment of redemption proceeds for up to seven calendar days. In addition, each Fund can suspend redemptions and/or postpone payments of redemption proceeds beyond seven calendar days (1) during any period that the NYSE is closed or trading on the NYSE is restricted as determined by the SEC; (2) during any period when an emergency exists, as defined by the SEC, as a result of which it is not reasonably practicable for the Fund to dispose of securities it owns or to fairly determine the value of its assets; or (3) for such other periods as the SEC may permit.

The Trust has filed a notice of election with the SEC to pay in cash all redemptions requested by any shareholder of record limited in amount during any 90-day period to the lesser of \$250,000 or 1% of the net assets of a Fund at the beginning of such period.

If Vanguard determines that it would be detrimental to the best interests of the remaining shareholders of a Fund to make payment wholly or partly in cash, the Fund may pay the redemption price in whole or in part by a distribution in kind of readily marketable securities held by the Fund in lieu of cash in conformity with applicable rules of the SEC and in accordance with procedures adopted by the Fund's board of trustees. Investors may incur brokerage charges on the sale of such securities received in payment of redemptions.

The Funds do not charge redemption fees. Shares redeemed may be worth more or less than what was paid for them, depending on the market value of the securities held by the Fund.

Vanguard processes purchase and redemption requests through a pooled account. Pending investment direction or distribution of redemption proceeds, the assets in the pooled account are invested and any earnings (the "float") are allocated proportionately among the Vanguard funds in order to offset fund expenses. Other than the float, Vanguard treats assets held in the pooled account as the assets of each shareholder making such purchase or redemption request.

Right to Change Policies

Vanguard reserves the right, without notice, to (1) alter, add, or discontinue any conditions of purchase (including eligibility requirements), redemption, exchange, conversion, service, or privilege at any time and (2) alter, impose, discontinue, or waive any purchase fee, redemption fee, account service fee, or other fee charged to a shareholder or a group of shareholders. Changes may affect any or all investors. These actions will be taken when, at the sole discretion of Vanguard management, Vanguard believes they are in the best interest of a fund.

Account Restrictions

Vanguard reserves the right to: (1) redeem all or a portion of a fund/account to meet a legal obligation, including tax withholding, tax lien, garnishment order, or other obligation imposed on your account by a court or government agency; (2) redeem shares, close an account, or suspend account privileges, features, or options in the case of threatening conduct or activity; (3) redeem shares, close an account, or suspend account privileges, features, or options if Vanguard believes or suspects that not doing so could result in a suspicious, fraudulent, or illegal transaction; (4) place restrictions on the ability to redeem any or all shares in an account if it is required to do so by a court or government agency; (5) place restrictions on the ability to redeem any or all shares in an account if Vanguard believes that doing so will prevent fraud, financial exploitation or abuse, or to protect vulnerable investors; (6) freeze any account and/or suspend account services if Vanguard has received reasonable notice of a dispute regarding the assets in an account, including notice of a dispute between the registered or beneficial account owners; and (7) freeze any account and/or suspend account services upon initial notification to Vanguard of the death of an account owner.

Investing With Vanguard Through Other Firms

Each Fund has authorized certain agents to accept on its behalf purchase and redemption orders, and those agents are authorized to designate other intermediaries to accept purchase and redemption orders on the Fund's behalf (collectively, Authorized Agents). A Fund will be deemed to have received a purchase or redemption order when an Authorized Agent accepts the order in accordance with the Fund's instructions. In most instances, a customer order that is properly transmitted to an Authorized Agent will be priced at the NAV per share next determined after the order is received by the Authorized Agent.

MANAGEMENT OF THE FUNDS

Vanguard

Each Fund is part of the Vanguard group of investment companies, which consists of over 200 funds. Each fund is a series of a Delaware statutory trust. The funds obtain virtually all of their corporate management, administrative, and distribution services through the trusts' jointly owned subsidiary, Vanguard. Vanguard may contract with certain third-party service providers to assist Vanguard in providing certain administrative and/or accounting services with respect to the funds, subject to Vanguard's oversight. Vanguard also provides investment advisory services to certain Vanguard funds. All of these services are provided at Vanguard's total cost of operations pursuant to the Fifth Amended and Restated Funds' Service Agreement (the Agreement).

Vanguard employs a supporting staff of management and administrative personnel needed to provide the requisite services to the funds and also furnishes the funds with necessary office space, furnishings, and equipment. Each fund (other than a fund of funds) pays its share of Vanguard's total expenses, which are allocated among the funds under methods approved by the board of trustees of each fund. In addition, each fund bears its own direct expenses, such as legal, auditing, and custodial fees.

Pursuant to an agreement between Vanguard and JP Morgan Chase Bank N.A. (JP Morgan), JP Morgan provides services for Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF, Vanguard Extended Duration Treasury Index Fund, Vanguard Global Wellesley Income Fund, and Vanguard Global Wellington Fund. These services include, but are not limited to: (i) the calculation of such funds' daily NAVs and (ii) the furnishing of financial reports. The fees paid to JP Morgan under this agreement are based on a combination of flat and asset based fees. As of the fiscal year ended August 31, 2020, JP Morgan had received fees from the Funds for administrative services rendered as follows: for Vanguard ESG U.S. Stock ETF, \$8,499.96; and for Vanguard ESG International Stock ETF, \$5,666.64. For Vanguard Extended Duration Treasury Index Fund, Vanguard Global Wellesley Income Fund, and Vanguard Global Wellington Fund, JP Morgan had not received any fees for services rendered as of the fiscal year ended August 31, 2020.

Pursuant to an agreement between Vanguard and State Street Bank and Trust Company (State Street), State Street provides services for Vanguard U.S. Growth Fund, Vanguard International Growth Fund, Vanguard FTSE Social Index Fund, Vanguard Mega Cap Index Funds, and Vanguard U.S. Sector Index Funds. These services include, but are not limited to: (i) the calculation of such funds' daily NAVs and (ii) the furnishing of financial reports. The fees paid to State Street under this agreement are based on a combination of flat and asset based fees. As of the fiscal year ended August 31, 2020, State Street had not received any fees for services rendered.

The funds' officers are also employees of Vanguard.

Vanguard, Vanguard Marketing Corporation (VMC), the funds, and the funds' advisors have adopted codes of ethics designed to prevent employees who may have access to nonpublic information about the trading activities of the funds (access persons) from profiting from that information. The codes of ethics permit access persons to invest in securities for their own accounts, including securities that may be held by a fund, but place substantive and procedural restrictions on the trading activities of access persons. For example, the codes of ethics require that access persons receive advance approval for most securities trades to ensure that there is no conflict with the trading activities of the funds.

Vanguard was established and operates under the Agreement. The Agreement provides that each Vanguard fund may be called upon to invest up to 0.40% of its net assets in Vanguard. The amounts that each fund has invested are adjusted from time to time in order to maintain the proportionate relationship between each fund's relative net assets and its contribution to Vanguard's capital.

As of August 31, 2020, each Fund had contributed capital to Vanguard as follows:

Vanguard Fund	Capital Contribution to Vanguard	Percentage of Fund's Average Net Assets	Percent of Vanguard Funds' Contribution
Vanguard U.S. Growth Fund	\$1,530,000	Less than 0.01%	0.61%
Vanguard International Growth Fund	2,197,000	Less than 0.01%	0.88
Vanguard Extended Duration Treasury Index Fund	157,000	Less than 0.01%	0.06
Vanguard FTSE Social Index Fund	363,000	Less than 0.01%	0.15
Vanguard Communication Services Index Fund	115,000	Less than 0.01%	0.05
Vanguard Consumer Discretionary Index Fund	165,000	Less than 0.01%	0.07
Vanguard Consumer Staples Index Fund	268,000	Less than 0.01%	0.11
Vanguard Energy Index Fund	137,000	Less than 0.01%	0.05
Vanguard Financials Index Fund	278,000	Less than 0.01%	0.11
Vanguard Health Care Index Fund	559,000	Less than 0.01%	0.22
Vanguard Industrials Index Fund	130,000	Less than 0.01%	0.05
Vanguard Information Technology Index Fund	1,658,000	Less than 0.01%	0.66
Vanguard Materials Index Fund	92,000	Less than 0.01%	0.04
Vanguard Utilities Index Fund	231,000	Less than 0.01%	0.09
Vanguard Mega Cap Index Fund	125,000	Less than 0.01%	0.05
Vanguard Mega Cap Value Index Fund	124,000	Less than 0.01%	0.05
Vanguard Mega Cap Growth Index Fund	374,000	Less than 0.01%	0.15
Vanguard Global Wellesley Fund	20,000	Less than 0.01%	0.01
Vanguard Global Wellington Income Fund	53,000	Less than 0.01%	0.02
Vanguard ESG U.S. Stock ETF	76,000	Less than 0.01%	0.03
Vanguard ESG International Stock ETF	47,000	Less than 0.01%	0.02
Vanguard ESG U.S. Corporate Bond ETF ¹	—	—	—

¹ Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

Management. Corporate management and administrative services include (1) executive staff, (2) accounting and financial, (3) legal and regulatory, (4) shareholder account maintenance, (5) monitoring and control of custodian relationships, (6) shareholder reporting, and (7) review and evaluation of advisory and other services provided to the funds by third parties.

Distribution. Vanguard Marketing Corporation, 100 Vanguard Boulevard, Malvern, PA 19355, a wholly owned subsidiary of Vanguard, is the principal underwriter for the funds and in that capacity performs and finances marketing, promotional, and distribution activities (collectively, marketing and distribution activities) that are primarily intended to result in the sale of the funds' shares. VMC offers shares of each fund for sale on a continuous basis and will use all reasonable efforts in connection with the distribution of shares of the funds. VMC performs marketing and distribution activities in accordance with the conditions of a 1981 SEC exemptive order that permits the Vanguard funds to internalize and jointly finance the marketing, promotion, and distribution of their shares. The funds' trustees review and approve the marketing and distribution expenses incurred by the funds, including the nature and cost of the activities and the desirability of each fund's continued participation in the joint arrangement.

To ensure that each fund's participation in the joint arrangement falls within a reasonable range of fairness, each fund contributes to VMC's marketing and distribution expenses in accordance with an SEC-approved formula. Under that formula, one half of the marketing and distribution expenses are allocated among the funds based upon their relative net assets. The remaining half of those expenses is allocated among the funds based upon each fund's sales for the preceding 24 months relative to the total sales of the funds as a group, provided, however, that no fund's aggregate quarterly rate of contribution for marketing and distribution expenses shall exceed 125% of the average marketing and

distribution expense rate for Vanguard and that no fund shall incur annual marketing and distribution expenses in excess of 0.20% of its average month-end net assets. Each fund's contribution to these marketing and distribution expenses helps to maintain and enhance the attractiveness and viability of the Vanguard complex as a whole, which benefits all of the funds and their shareholders.

VMC's principal marketing and distribution expenses are for advertising, promotional materials, and marketing personnel. Other marketing and distribution activities of an administrative nature that VMC undertakes on behalf of the funds may include, but are not limited to:

- Conducting or publishing Vanguard-generated research and analysis concerning the funds, other investments, the financial markets, or the economy.
- Providing views, opinions, advice, or commentary concerning the funds, other investments, the financial markets, or the economy.
- Providing analytical, statistical, performance, or other information concerning the funds, other investments, the financial markets, or the economy.
- Providing administrative services in connection with investments in the funds or other investments, including, but not limited to, shareholder services, recordkeeping services, and educational services.
- Providing products or services that assist investors or financial service providers (as defined below) in the investment decision-making process.
- Providing promotional discounts, commission-free trading, fee waivers, and other benefits to clients of Vanguard Brokerage Services® who maintain qualifying investments in the funds.

VMC performs most marketing and distribution activities itself. Some activities may be conducted by third parties pursuant to shared marketing arrangements under which VMC agrees to share the costs and performance of marketing and distribution activities in concert with a financial service provider. Financial service providers include, but are not limited to, investment advisors, broker-dealers, financial planners, financial consultants, banks, and insurance companies. Under these cost- and performance-sharing arrangements, VMC may pay or reimburse a financial service provider (or a third party it retains) for marketing and distribution activities that VMC would otherwise perform. VMC's cost- and performance-sharing arrangements may be established in connection with Vanguard investment products or services offered or provided to or through the financial service providers. VMC's arrangements for shared marketing and distribution activities may vary among financial service providers, and its payments or reimbursements to financial service providers in connection with shared marketing and distribution activities may be significant.

VMC, as a matter of policy, does not pay asset-based fees, sales-based fees, or account-based fees to financial service providers in connection with its marketing and distribution activities for the Vanguard funds. VMC does make fixed dollar payments to financial service providers when sponsoring, jointly sponsoring, financially supporting, or participating in conferences, programs, seminars, presentations, meetings, or other events involving fund shareholders, financial service providers, or others concerning the funds, other investments, the financial markets, or the economy, such as industry conferences, prospecting trips, due diligence visits, training or education meetings, and sales presentations. VMC also makes fixed dollar payments to financial service providers for data regarding funds, such as statistical information regarding sales of fund shares. In addition, VMC makes one-time fixed dollar payments for setup expenses associated with financial service providers' use of Vanguard's model portfolios comprised of funds.

In connection with its marketing and distribution activities, VMC may give financial service providers (or their representatives) (1) promotional items of nominal value that display Vanguard's logo, such as golf balls, shirts, towels, pens, and mouse pads; (2) gifts that do not exceed \$100 per person annually and are not preconditioned on achievement of a sales target; (3) an occasional meal, a ticket to a sporting event or the theater, or comparable entertainment that is neither so frequent nor so extensive as to raise any question of propriety and is not preconditioned on achievement of a sales target; and (4) reasonable travel and lodging accommodations to facilitate participation in marketing and distribution activities.

VMC policy prohibits marketing and distribution activities that are intended, designed, or likely to compromise suitability determinations by, or the fulfillment of any fiduciary duties or other obligations that apply to, financial service providers. Nonetheless, VMC's marketing and distribution activities are primarily intended to result in the sale of the funds' shares, and as such, its activities, including shared marketing and distribution activities and fixed dollar payments as described above, may influence applicable financial service providers (or their representatives) to recommend, promote, include, or invest in a Vanguard fund or share class. In addition, Vanguard or any of its subsidiaries may retain a financial service provider to provide consulting or other services, and that financial service provider also may provide services to

investors. Investors should consider the possibility that any of these activities, relationships, or payments may influence a financial service provider's (or its representatives') decision to recommend, promote, include, or invest in a Vanguard fund or share class. Each financial service provider should consider its suitability determinations, fiduciary duties, and other legal obligations (or those of its representatives) in connection with any decision to consider, recommend, promote, include, or invest in a Vanguard fund or share class.

The following table describes the expenses of Vanguard and VMC that are incurred by the Funds. Amounts captioned "Management and Administrative Expenses" include a Fund's allocated share of expenses associated with the management, administrative, and transfer agency services Vanguard provides to the Vanguard funds. Amounts captioned "Marketing and Distribution Expenses" include a Fund's allocated share of expenses associated with the marketing and distribution activities that VMC conducts on behalf of the Vanguard funds.

As is the case with all mutual funds, transaction costs incurred by the Funds for buying and selling securities are not reflected in the table. Annual Shared Fund Operating Expenses are based on expenses incurred in the fiscal years ended August 31, 2018, 2019, and 2020, and are presented as a percentage of each Fund's average month-end net assets. Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

**Annual Shared Fund Operating Expenses
(Shared Expenses Deducted From Fund Assets)**

Vanguard Fund	2018	2019	2020
Vanguard Communication Services Index Fund			
Management and Administrative Expenses	0.06%	0.08%	0.08%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Consumer Discretionary Index Fund			
Management and Administrative Expenses	0.08%	0.09%	0.09%
Marketing and Distribution Expenses	0.01	Less than 0.01	0.01
Vanguard Consumer Staples Index Fund			
Management and Administrative Expenses	0.08%	0.09%	0.09%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Energy Index Fund			
Management and Administrative Expenses	0.08%	0.08%	0.08%
Marketing and Distribution Expenses	0.01	Less than 0.01	Less than 0.01
Vanguard ESG International Stock ETF			
Management and Administrative Expenses	—	0.11%	0.13%
Marketing and Distribution Expenses	—	0.01	0.01
Vanguard ESG U.S. Corporate Bond ETF			
Management and Administrative Expenses	—	—	—
Marketing and Distribution Expenses	—	—	—
Vanguard ESG U.S. Stock ETF			
Management and Administrative Expenses	—	0.09%	0.10%
Marketing and Distribution Expenses	—	0.01	Less than 0.01
Vanguard Extended Duration Treasury Index Fund			
Management and Administrative Expenses	0.05%	0.05%	0.05%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	Less than 0.01
Vanguard Financials Index Fund			
Management and Administrative Expenses	0.08%	0.09%	0.09%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard FTSE Social Index Fund			
Management and Administrative Expenses	0.14%	0.12%	0.12%
Marketing and Distribution Expenses	0.01	0.01	Less than 0.01
Vanguard Global Wellesley Income Fund			
Management and Administrative Expenses	0.17%	0.20%	0.19%
Marketing and Distribution Expenses	Less than 0.01	0.01	0.01

**Annual Shared Fund Operating Expenses
(Shared Expenses Deducted From Fund Assets)**

Vanguard Fund	2018	2019	2020
Vanguard Global Wellington Fund			
Management and Administrative Expenses	0.17%	0.20%	0.20%
Marketing and Distribution Expenses	Less than 0.01	0.01	0.01
Vanguard Health Care Index Fund			
Management and Administrative Expenses	0.09%	0.09%	0.09%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	0.01
Vanguard Industrials Index Fund			
Management and Administrative Expenses	0.08%	0.09%	0.09%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Information Technology Index Fund			
Management and Administrative Expenses	0.09%	0.09%	0.09%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	Less than 0.01
Vanguard International Growth Fund			
Management and Administrative Expenses	0.16%	0.16%	0.15%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Materials Index Fund			
Management and Administrative Expenses	0.08%	0.08%	0.08%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Mega Cap Growth Index Fund			
Management and Administrative Expenses	0.06%	0.06%	0.06%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	Less than 0.01
Vanguard Mega Cap Index Fund			
Management and Administrative Expenses	0.04%	0.05%	0.06%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	Less than 0.01
Vanguard Mega Cap Value Index Fund			
Management and Administrative Expenses	0.06%	0.06%	0.06%
Marketing and Distribution Expenses	Less than 0.01	Less than 0.01	0.01
Vanguard U.S. Growth Fund			
Management and Administrative Expenses	0.17%	0.16%	0.16%
Marketing and Distribution Expenses	0.01	0.01	0.01
Vanguard Utilities Index Fund			
Management and Administrative Expenses	0.08%	0.09%	0.09%
Marketing and Distribution Expenses	0.01	0.01	0.01

The U.S. Growth Fund's investment advisors may direct certain security trades, subject to obtaining the best price and execution, to brokers who have agreed to rebate to the Fund part of the commissions generated. Such rebates are used solely to reduce the Fund's management and administrative expenses and are not reflected in these totals.

Officers and Trustees

Each Vanguard fund is governed by the board of trustees of its trust and a single set of officers. Consistent with the board's corporate governance principles, the trustees believe that their primary responsibility is oversight of the management of each fund for the benefit of its shareholders, not day-to-day management. The trustees set broad policies for the funds; select investment advisors; monitor fund operations, regulatory compliance, performance, and costs; nominate and select new trustees; and elect fund officers. Vanguard manages the day-to-day operations of the funds under the direction of the board of trustees.

The trustees play an active role, as a full board and at the committee level, in overseeing risk management for the funds. The trustees delegate the day-to-day risk management of the funds to various groups, including portfolio review,

investment management, risk management, compliance, legal, fund accounting, and fund financial services. These groups provide the trustees with regular reports regarding investment, valuation, liquidity, and compliance, as well as the risks associated with each. The trustees also oversee risk management for the funds through regular interactions with the funds' internal and external auditors.

The full board participates in the funds' risk oversight, in part, through the Vanguard funds' compliance program, which covers the following broad areas of compliance: investment and other operations; recordkeeping; valuation and pricing; communications and disclosure; reporting and accounting; oversight of service providers; fund governance; and codes of ethics, insider trading controls, and protection of nonpublic information. The program seeks to identify and assess risk through various methods, including through regular interdisciplinary communications between compliance professionals and business personnel who participate on a daily basis in risk management on behalf of the funds. The funds' chief compliance officer regularly provides reports to the board in writing and in person.

The audit committee of the board, which is composed of F. Joseph Loughrey, Mark Loughridge, Sarah Bloom Raskin, and Peter F. Volanakis, each of whom is an independent trustee, oversees management of financial risks and controls. The audit committee serves as the channel of communication between the independent auditors of the funds and the board with respect to financial statements and financial reporting processes, systems of internal control, and the audit process. Vanguard's head of internal audit reports directly to the audit committee and provides reports to the committee in writing and in person on a regular basis. Although the audit committee is responsible for overseeing the management of financial risks, the entire board is regularly informed of these risks through committee reports.

All of the trustees bring to each fund's board a wealth of executive leadership experience derived from their service as executives (in many cases chief executive officers), board members, and leaders of diverse public operating companies, academic institutions, and other organizations. In determining whether an individual is qualified to serve as a trustee of the funds, the board considers a wide variety of information about the trustee, and multiple factors contribute to the board's decision. Each trustee is determined to have the experience, skills, and attributes necessary to serve the funds and their shareholders because each trustee demonstrates an exceptional ability to consider complex business and financial matters, evaluate the relative importance and priority of issues, make decisions, and contribute effectively to the deliberations of the board. The board also considers the individual experience of each trustee and determines that the trustee's professional experience, education, and background contribute to the diversity of perspectives on the board. The business acumen, experience, and objective thinking of the trustees are considered invaluable assets for Vanguard management and, ultimately, the Vanguard funds' shareholders. The specific roles and experience of each board member that factor into this determination are presented on the following pages. The mailing address of the trustees and officers is P.O. Box 876, Valley Forge, PA 19482.

Name, Year of Birth	Position(s) Held With Funds	Vanguard Funds' Trustee/ Officer Since	Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience	Number of Vanguard Funds Overseen by Trustee/Officer
Interested Trustee¹				
Mortimer J. Buckley (1969)	Chairman of the Board, Chief Executive Officer, and President	January 2018	Chairman of the board (2019–present) of Vanguard and of each of the investment companies served by Vanguard; chief executive officer (2018–present) of Vanguard; chief executive officer, president, and trustee (2018–present) of each of the investment companies served by Vanguard; president and director (2017–present) of Vanguard; and president (2018–present) of Vanguard Marketing Corporation. Chief investment officer (2013–2017), managing director (2002–2017), head of the Retail Investor Group (2006–2012), and chief information officer (2001–2006) of Vanguard. Chairman of the board (2011–2017) and trustee (2009–2017) of the Children's Hospital of Philadelphia; and trustee (2018–present) and vice chair (2019–present) of The Shipley School.	211

¹ Mr. Buckley is considered an "interested person" as defined in the 1940 Act because he is an officer of the Trust.

Name, Year of Birth	Position(s) Held With Funds	Vanguard Funds' Trustee/ Officer Since	Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience	Number of Vanguard Funds Overseen by Trustee/Officer
Independent Trustees				
Emerson U. Fullwood (1948)	Trustee	January 2008	Executive chief staff and marketing officer for North America and corporate vice president (retired 2008) of Xerox Corporation (document management products and services). Former president of the Worldwide Channels Group, Latin America, and Worldwide Customer Service and executive chief staff officer of Developing Markets of Xerox. Executive in residence and 2009–2010 Distinguished Minett Professor at the Rochester Institute of Technology. Director of SPX FLOW, Inc. (multi-industry manufacturing). Director of the University of Rochester Medical Center, the Monroe Community College Foundation, the United Way of Rochester, North Carolina A&T University, and Roberts Wesleyan College. Trustee of the University of Rochester.	211
Amy Gutmann (1949)	Trustee	June 2006	President (2004–present) of the University of Pennsylvania. Christopher H. Browne Distinguished Professor of Political Science, School of Arts and Sciences, and professor of communication, Annenberg School for Communication, with secondary faculty appointments in the Department of Philosophy, School of Arts and Sciences, and at the Graduate School of Education, University of Pennsylvania.	211
F. Joseph Loughrey (1949)	Trustee	October 2009	President and chief operating officer (retired 2009) and vice chairman of the board (2008–2009) of Cummins Inc. (industrial machinery). Chairman of the board of Hillenbrand, Inc. (specialized consumer services) and the Lumina Foundation. Director of the V Foundation. Member of the advisory council for the College of Arts and Letters and chair of the advisory board to the Kellogg Institute for International Studies, both at the University of Notre Dame.	211
Mark Loughridge (1953)	Lead Independent Trustee	March 2012	Senior vice president and chief financial officer (retired 2013) of IBM (information technology services). Fiduciary member of IBM's Retirement Plan Committee (2004–2013), senior vice president and general manager (2002–2004) of IBM Global Financing, vice president and controller (1998–2002) of IBM, and a variety of other prior management roles at IBM. Member of the Council on Chicago Booth.	211
Scott C. Malpass (1962)	Trustee	March 2012	Chief investment officer and vice president of the University of Notre Dame (retired June 2020). Assistant professor of finance at the Mendoza College of Business, University of Notre Dame, and member of the Notre Dame 403(b) Investment Committee (retired June 2020). Member of the board of Catholic Investment Services, Inc. (investment advisors) and the board of superintendence of the Institute for the Works of Religion.	211

Name, Year of Birth	Position(s) Held With Funds	Vanguard Funds' Trustee/ Officer Since	Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience	Number of Vanguard Funds Overseen by Trustee/Officer
Deanna Mulligan (1963)	Trustee	January 2018	Board chair (2020–present), chief executive officer (2011–2020), and president (2010–2019) of The Guardian Life Insurance Company of America. Chief operating officer (2010–2011) and executive vice president (2008–2010) of Individual Life and Disability of The Guardian Life Insurance Company of America. Member of the board of the American Council of Life Insurers and the Economic Club of New York. Trustee of the Partnership for New York City (business leadership), the Chief Executives for Corporate Purpose, the NewYork-Presbyterian Hospital, Catalyst, and the Bruce Museum (arts and science). Member of the Advisory Council for the Stanford Graduate School of Business.	211
André F. Perold (1952)	Trustee	December 2004	George Gund Professor of Finance and Banking, Emeritus at the Harvard Business School (retired 2011). Chief investment officer and co-managing partner of HighVista Strategies LLC (private investment firm). Board of Advisors and investment committee member of the Museum of Fine Arts Boston. Board member (2018–present) of RIT Capital Partners (investment firm); investment committee member of Partners Health Care System.	211
Sarah Bloom Raskin (1961)	Trustee	January 2018	Deputy secretary (2014–2017) of the United States Department of the Treasury. Governor (2010–2014) of the Federal Reserve Board. Commissioner (2007–2010) of financial regulation for the State of Maryland. Member of the board of directors (2012–2014) of Neighborhood Reinvestment Corporation. Director (2017–present) of i(x) Investments, LLC; director (2017–present) of Reserve Trust. Rubenstein Fellow (2017–present) of Duke University; trustee (2017–present) of Amherst College; and trustee (2019–present) of Folger Shakespeare Library.	211
Peter F. Volanakis (1955)	Trustee	July 2009	President and chief operating officer (retired 2010) of Corning Incorporated (communications equipment) and director of Corning Incorporated (2000–2010) and Dow Corning (2001–2010). Director (2012) of SPX Corporation (multi-industry manufacturing). Overseer of the Amos Tuck School of Business Administration, Dartmouth College (2001–2013). Chairman of the board of trustees of Colby-Sawyer College. Member of the board of Hypertherm Inc. (industrial cutting systems, software, and consumables).	211
Executive Officers				
John Bendl (1970)	Chief Financial Officer	October 2019	Principal of Vanguard. Chief financial officer (2019–present) of each of the investment companies served by Vanguard. Chief accounting officer, treasurer, and controller of Vanguard (2017–present). Partner (2003–2016) at KPMG (audit, tax, and advisory services).	211
Christine M. Buchanan (1970)	Treasurer	November 2017	Principal of Vanguard. Treasurer (2017–present) of each of the investment companies served by Vanguard. Partner (2005–2017) at KPMG (audit, tax, and advisory services).	211

Name, Year of Birth	Position(s) Held With Funds	Vanguard Funds' Trustee/Officer Since	Principal Occupation(s) During the Past Five Years, Outside Directorships, and Other Experience	Number of Vanguard Funds Overseen by Trustee/Officer
David Cermak (1960)	Finance Director	October 2019	Principal of Vanguard. Finance director (2019–present) of each of the investment companies served by Vanguard. Managing director and head (2017–present) of Vanguard Investments Singapore. Managing director and head (2017–2019) of Vanguard Investments Hong Kong. Representative director and head (2014–2017) of Vanguard Investments Japan.	211
John Galloway (1973)	Investment Stewardship Officer	September 2020	Principal of Vanguard. Investment stewardship officer (September 2020–present) of each of the investment companies served by Vanguard. Head of Investor Advocacy (February 2020–present) and head of Marketing Strategy and Planning (2017–2020) at Vanguard. Deputy Assistant to the President of the United States (2015).	211
Thomas J. Higgins (1957)	Finance Director	July 1998	Principal of Vanguard. Finance director (2019–present), chief financial officer (2008–2019), and treasurer (1998–2008) of each of the investment companies served by Vanguard.	211
Peter Mahoney (1974)	Controller	May 2015	Principal of Vanguard. Controller (2015–present) of each of the investment companies served by Vanguard. Head of International Fund Services (2008–2014) at Vanguard.	211
Anne E. Robinson (1970)	Secretary	September 2016	General counsel (2016–present) of Vanguard. Secretary (2016–present) of Vanguard and of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Managing director and general counsel of Global Cards and Consumer Services (2014–2016) at Citigroup. Counsel (2003–2014) at American Express.	211
Michael Rollings (1963)	Finance Director	February 2017	Finance director (2017–present) and treasurer (2017) of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Chief financial officer (2016–present) of Vanguard. Director (2016–present) of Vanguard Marketing Corporation. Executive vice president and chief financial officer (2006–2016) of MassMutual Financial Group.	211
John E. Schadl (1972)	Chief Compliance Officer	March 2019	Principal of Vanguard. Chief compliance officer (2019–present) of Vanguard and of each of the investment companies served by Vanguard. Assistant vice president (2019–present) of Vanguard Marketing Corporation.	211

All but one of the trustees are independent. The independent trustees designate a lead independent trustee. The lead independent trustee is a spokesperson and principal point of contact for the independent trustees and is responsible for coordinating the activities of the independent trustees, including calling regular executive sessions of the independent trustees; developing the agenda of each meeting together with the chairman; and chairing the meetings of the independent trustees. The lead independent trustee also chairs the meetings of the audit, compensation, and nominating committees. The board also has two investment committees, which consist of independent trustees and the sole interested trustee.

The independent trustees appoint the chairman of the board. The roles of chairman of the board and chief executive officer currently are held by the same person; as a result, the chairman of the board is an “interested” trustee. The independent trustees generally believe that the Vanguard funds’ chief executive officer is best qualified to serve as chairman and that fund shareholders benefit from this leadership structure through accountability and strong day-to-day leadership.

Board Committees: The Trust’s board has the following committees:

- **Audit Committee:** This committee oversees the accounting and financial reporting policies, the systems of internal controls, and the independent audits of each fund. The following independent trustees serve as members of the committee: Mr. Loughrey, Mr. Loughridge, Ms. Raskin, and Mr. Volanakis. The committee held six meetings during the Trust’s fiscal year ended August 31, 2020.
- **Compensation Committee:** This committee oversees the compensation programs established by each fund for the benefit of its trustees. All independent trustees serve as members of the committee. The committee held one meeting during the Trust’s fiscal year ended August 31, 2020.
- **Investment Committees:** These committees assist the board in its oversight of investment advisors to the funds and in the review and evaluation of materials relating to the board’s consideration of investment advisory agreements with the funds. Each trustee serves on one of two investment committees. Each investment committee held four meetings during the Trust’s fiscal year ended August 31, 2020.
- **Nominating Committee:** This committee nominates candidates for election to the board of trustees of each fund. The committee also has the authority to recommend the removal of any trustee. All independent trustees serve as members of the committee. The committee held two meetings during the Trust’s fiscal year ended August 31, 2020.

The Nominating Committee will consider shareholder recommendations for trustee nominees. Shareholders may send recommendations to Mr. Loughridge, chairman of the committee.

Trustee Compensation

The same individuals serve as trustees of all Vanguard funds and each fund pays a proportionate share of the trustees’ compensation. Vanguard funds also employ their officers on a shared basis; however, officers are compensated by Vanguard, not the funds.

Independent Trustees. The funds compensate their independent trustees (i.e., the ones who are not also officers of the funds) in three ways:

- The independent trustees receive an annual fee for their service to the funds, which is subject to reduction based on absences from scheduled board meetings.
- The independent trustees are reimbursed for the travel and other expenses that they incur in attending board meetings.
- Upon retirement (after attaining age 65 and completing five years of service), the independent trustees who began their service prior to January 1, 2001, receive a retirement benefit under a separate account arrangement. As of January 1, 2001, the opening balance of each eligible trustee’s separate account was generally equal to the net present value of the benefits he or she had accrued under the trustees’ former retirement plan. Each eligible trustee’s separate account will be credited annually with interest at a rate of 7.5% until the trustee receives his or her final distribution. Those independent trustees who began their service on or after January 1, 2001, are not eligible to participate in the plan.

“Interested” Trustee. Mr. Buckley serves as a trustee, but is not paid in this capacity. He is, however, paid in his role as an officer of Vanguard.

Compensation Table. The following table provides compensation details for each of the trustees. We list the amounts paid as compensation and accrued as retirement benefits by the Funds for each trustee. In addition, the table shows the total amount of benefits that we expect each trustee to receive from all Vanguard funds upon retirement and the total amount of compensation paid to each trustee by all Vanguard funds.

**VANGUARD WORLD FUND
TRUSTEES' COMPENSATION TABLE**

Trustee	Aggregate Compensation From the Funds ¹	Pension or Retirement Benefits Accrued as Part of the Funds' Expenses ¹	Accrued Annual Retirement Benefit at January 1, 2020 ²	Total Compensation From All Vanguard Funds Paid to Trustees ³
Mortimer J. Buckley	—	—	—	—
Emerson U. Fullwood	\$18,530	—	—	\$287,500
Amy Gutmann	18,530	—	—	287,500
F. Joseph Loughrey	19,819	—	—	307,500
Mark Loughridge	23,045	—	—	357,500
Scott C. Malpass	18,530	—	—	287,500
Deanna Mulligan	18,530	—	—	287,500
André F. Perold	18,530	—	—	287,500
Sarah Bloom Raskin	19,819	—	—	307,500
Peter F. Volanakis	19,819	—	—	307,500

1 The amounts shown in this column are based on the Trust's fiscal year ended August 31, 2020. Each Fund within the Trust is responsible for a proportionate share of these amounts. Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

2 Each trustee is eligible to receive retirement benefits only after completing at least 5 years (60 consecutive months) of service as a trustee for the Vanguard funds. The annual retirement benefit will be paid in monthly installments, beginning with the month following the trustee's retirement from service, and will cease after 10 years of payments (120 monthly installments). Trustees who began their service on or after January 1, 2001, are not eligible to participate in the retirement benefit plan.

3 The amounts reported in this column reflect the total compensation paid to each trustee for his or her service as trustee of 213 Vanguard funds for the 2019 calendar year.

Ownership of Fund Shares

All current trustees allocate their investments among the various Vanguard funds based on their own investment needs. The following table shows each trustee's ownership of shares of each Fund (except for Vanguard ESG U.S. Corporate Bond ETF, which commenced operations on September 22, 2020) and of all Vanguard funds served by the trustee as of December 31, 2019.

VANGUARD WORLD FUND

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard Communication Services Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
	Peter F. Volanakis	—	Over \$100,000

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard Consumer Discretionary Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Consumer Staples Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Energy Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard ESG International Stock ETF	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard ESG U.S. Stock ETF	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Extended Duration Treasury Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Financials Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	\$10,001 – \$50,000	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard FTSE Social Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard Global Wellesley Income Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Global Wellington Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	Over \$100,000	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Health Care Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	\$10,001 – \$50,000	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Industrials Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard Information Technology Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard International Growth Fund	Mortimer J. Buckley	Over \$100,000	Over \$100,000
	Emerson U. Fullwood	Over \$100,000	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	Over \$100,000	Over \$100,000	
Vanguard Materials Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Mega Cap Growth Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	

Vanguard Fund	Trustee	Dollar Range of Fund Shares Owned by Trustee	Aggregate Dollar Range of Vanguard Fund Shares Owned by Trustee
Vanguard Mega Cap Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Mega Cap Value Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard U.S. Growth Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	Over \$100,000	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	Over \$100,000	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	
Vanguard Utilities Index Fund	Mortimer J. Buckley	—	Over \$100,000
	Emerson U. Fullwood	—	Over \$100,000
	Amy Gutmann	—	Over \$100,000
	F. Joseph Loughrey	—	Over \$100,000
	Mark Loughridge	—	Over \$100,000
	Scott C. Malpass	—	Over \$100,000
	Deanna Mulligan	—	Over \$100,000
	André F. Perold	—	Over \$100,000
	Sarah Bloom Raskin	—	Over \$100,000
Peter F. Volanakis	—	Over \$100,000	

As of November 30, 2020, the trustees and officers of the funds owned, in the aggregate, less than 1% of each class of each fund's outstanding shares.

As of November 30, 2020, the following owned of record 5% or more of the outstanding shares of each class (Other than ETF Shares):

Vanguard Fund	Share Class	Owner and Address	Percentage of Ownership
Vanguard Communication Services Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	11.88%
Vanguard Consumer Discretionary Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	6.04%
Vanguard Consumer Staples Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	10.85%
Vanguard Energy Index Fund	Admiral Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	5.51%
		MAC & CO PITTSBURGH, PA	9.96%
		US BANK NA MILWAUKEE,WI	6.92%
Vanguard Extended Duration Treasury Index Fund	Institutional Shares	COMPENSATION AT RETIREMENT TRUST VFTC FBO COMPENSATION AT RETIREMENT (CAR) PLAN OF BOLER COMPANY ITASCA, IL	5.34%
		MAC & CO PITTSBURGH, PA	11.83%
		NEWYORK UNIVERSITY STAFF PENSION PLAN	5.72%
		(NON-CONTRIBUTORY) NEW YORK, NY	
		THE NORTHERN TRUST COMPANY	10.95%
		FBO JOHNS HOPKINS HEALTH SYSTEM A/C2228555 CHICAGO, IL	
		THE NORTHERN TRUST COMPANY TRUSTEE U OF C - 3 LONG DURATION 2287703 CHICAGO, IL	5.97%
		UTICA MUTUAL NATIONAL INSURANCE CO NEW HARTFORD,NY	5.8%
	Institutional Plus Shares	SG PENSION PLAN NEWYORK, NY	20.37%
		THE NORTHERN TRUST COMPANY FBO TNT-LDN-AVANGRID INC DEFINED BENEFIT A/C #17-99979 Chicago, IL	27.51%
		TRANSOCEAN U.S. RETIREMENT PLAN HOUSTON, TX	52.01%
Vanguard Financials Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	11.06%
Vanguard FTSE Social Index Fund	Institutional Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	7.04%
		FIDELITY INVESTMENTS INSTITUTIONAL OPERATIONS CO COVINGTON, KY	35.09%
		KAISER PERMANENTE 401K RETIREMENT PLAN (KP401K)	5.99%
	Admiral Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	10.06%
		FIDELITY INVESTMENTS INSTITUTIONAL OPERATIONS CO COVINGTON, KY	5.33%
		NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	5.08%
Vanguard Global Wellesley Income Fund	Investor Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	9.58%
	Admiral Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	16.18%
		NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	8.18%

Vanguard Fund	Share Class	Owner and Address	Percentage of Ownership
Vanguard Global Wellington Fund	Investor Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	15.09%
	Admiral Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	10.22%
Vanguard Health Care Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	26.53%
		CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	5.33%
Vanguard Industrials Index Fund	Admiral Shares	MID-ATLANTIC TRUST COMPANY SUPER OMNIBUS DIV REINVEST LTC PITTSBURGH, PA	5.78%
		NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	33.71%
Vanguard Information Technology Index Fund	Admiral Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	5.64%
Vanguard International Growth Fund	Investor Shares	CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	9.32%
		VANGUARD STAR FUND VALLEY FORGE, PA	25.31%
	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	7.26%
		CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	8.37%
Vanguard Materials Index Fund	Admiral Shares	FIDELITY INVESTMENTS INSTITUTIONAL OPERATIONS CO COVINGTON, KY	5.16%
		CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	19.02%
		US BANK NA CAPINCO MILWAUKEE, WI	5.56%
Vanguard Mega Cap Growth Index Fund	Institutional Shares	BMO HARRIS BANK NA MITRA & CO FBO 98 MILWAUKEE, WI	5.06%
		CHENGWEN WANG	17%
		JP MORGN SECURITIES LLC OMNIBUS ACCOUNT Brooklyn, NY	11.32%
		MAC & CO A/C 434732 PITTSBURGH, PA15258	26.87%
		NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	39.6%
Vanguard Mega Cap Index Fund	Institutional Shares	BENEFIT TRUST FBO LIBERTY ENERGY UTILITIES OVERLAND PARK, KS	50.94%
		COMMERCE BANK HOCO KANSAS CITY, MO	9.73%
		COMMUNITY FOUNDATION OF NEW JERSEY BALANCE PORTFOLIO POOL MORRISTOWN, NJ	8.61%
		FEDERATION OF STATE BOARDS OF PHYSICAL THERAPY ALEXANDRIA, VA	5.98%
		WELLS FARGO BANK NA FBO GUILFORD PENSION TRUST 26279200 MINNEAPOLIS, MN55480	9.64%

Vanguard Fund	Share Class	Owner and Address	Percentage of Ownership
Vanguard Mega Cap Value Index Fund	Institutional Shares	CAPITAL DISTRICT PHYSICIANS HEALTH PLAN ALBANY, NY	12.44%
		CHARLES SCHWAB & CO INC SAN FRANCISCO, CA	29.16%
		CINCINNATI BENGALS INC CINCINNATI, OH	7%
		NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	10.2%
Vanguard U.S. Growth Fund	Investor Shares	VANGUARD STAR FUND VALLEY FORGE, PA	27.41%
		VANGUARD DIVERSITY EQUITY FUND VALLEY FORGE, PA	6.03%
	Admiral Shares	FIDELITY INVESTMENTS INSTITUTIONAL OPERATIONS CO COVINGTON, KY	5.61%
Vanguard Utilities Index Fund	Admiral Shares	NATIONAL FINANCIAL SERVICES CORPORATION JERSEY CITY, NJ	6.68%

Although the Funds do not have information concerning the beneficial ownership of shares held in the names of Depository Trust Company (DTC) participants, as of November 30, 2020, the name and percentage ownership of each DTC participant that owned of record 5% or more of the outstanding ETF Shares of a Fund were as follows:

Vanguard Fund	Owner	Percentage of Ownership
Vanguard Communication Services ETF	Ameriprise Advisor Services, Inc.	5.69%
	Charles Schwab & Co., Inc.	12.44%
	J.P. Morgan Clearing Corp.	6.29%
	JPMorgan Chase Bank, National Association	8.9%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	8.4%
	Morgan Stanley DW Inc.	5.59%
	National Financial Services LLC	7.35%
	TD Ameritrade Clearing, Inc.	8.23%
	UBS Financial Services LLC	5.36%
	VANGUARD Marketing Corporation	5.09%
	Vanguard Consumer Discretionary ETF	Charles Schwab & Co., Inc.
First Clearing, LLC		5.69%
Merrill Lynch, Pierce, Fenner & Smith Incorporated		10.2%
National Financial Services LLC		10.03%
TD Ameritrade Clearing, Inc.		9.05%
VANGUARD Marketing Corporation		16.24%
Vanguard Consumer Staples ETF	Charles Schwab & Co., Inc.	11.36%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	22.76%
	National Financial Services LLC	11.68%
	TD Ameritrade Clearing, Inc.	8.51%
Vanguard Energy ETF	VANGUARD Marketing Corporation	11.63%
	Charles Schwab & Co., Inc.	14.01%
	National Financial Services LLC	10.62%
	TD Ameritrade Clearing, Inc.	11.64%
Vanguard ESG International Stock ETF	VANGUARD Marketing Corporation	22.16%
	Charles Schwab & Co., Inc.	8.24%
	JPMorgan Chase Bank, National Association	7.58%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	11.12%
	National Financial Services LLC	6.44%
Vanguard ESG U.S. Stock ETF	TD Ameritrade Clearing, Inc.	5.27%
	VANGUARD Marketing Corporation	39.41%
	Charles Schwab & Co., Inc.	9.45%
	JPMorgan Chase Bank, National Association	8.16%
	National Financial Services LLC	6.49%
	TD Ameritrade Clearing, Inc.	5.51%
	VANGUARD Marketing Corporation	34.26%
Vanguard Extended Duration Treasury ETF	Wells Fargo Bank, National Association	8.75%
	Charles Schwab & Co., Inc.	12.72%
	National Financial Services LLC	11.03%
	TD Ameritrade Clearing, Inc.	10.29%
	UBS Financial Services LLC	6.02%
Vanguard Financials ETF	VANGUARD Marketing Corporation	16.12%
	Charles Schwab & Co., Inc.	8.94%
	JPMorgan Chase Bank, National Association	5.77%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	29.66%
	National Financial Services LLC	8.75%
	TD Ameritrade Clearing, Inc.	5.02%
	VANGUARD Marketing Corporation	8.61%

Vanguard Fund	Owner	Percentage of Ownership
Vanguard Health Care ETF	Charles Schwab & Co., Inc.	14.82%
	National Financial Services LLC	10.93%
	TD Ameritrade Clearing, Inc.	7.3%
	VANGUARD Marketing Corporation	15.85%
Vanguard Industrials ETF	Charles Schwab & Co., Inc.	7.6%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	40.73%
	National Financial Services LLC	5.71%
	TD Ameritrade Clearing, Inc.	6.88%
Vanguard Information Technology ETF	VANGUARD Marketing Corporation	7.23%
	Charles Schwab & Co., Inc.	10.51%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	22.33%
	National Financial Services LLC	7.84%
Vanguard Materials ETF	VANGUARD Marketing Corporation	13.82%
	Ameriprise Advisor Services, Inc.	6.49%
	Charles Schwab & Co., Inc.	12.58%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	16.23%
Vanguard Mega Cap ETF	National Financial Services LLC	9.24%
	Pershing LLC	6.24%
	TD Ameritrade Clearing, Inc.	12.23%
	VANGUARD Marketing Corporation	13.52%
Vanguard Mega Cap Growth ETF	Charles Schwab & Co., Inc.	14.87%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	9.3%
	Morgan Stanley DW Inc.	5.29%
	National Financial Services LLC	12.04%
Vanguard Mega Cap Value ETF	TD Ameritrade Clearing, Inc.	11.07%
	VANGUARD Marketing Corporation	11.23%
	Charles Schwab & Co., Inc.	11.01%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	8.39%
Vanguard Utilities ETF	National Financial Services LLC	18.54%
	Pershing LLC	6.21%
	TD Ameritrade Clearing, Inc.	9.61%
	VANGUARD Marketing Corporation	14.71%
Vanguard Mega Cap Value ETF	Charles Schwab & Co., Inc.	9.71%
	Merrill Lynch, Pierce, Fenner & Smith Incorporated	15.05%
	Morgan Stanley DW Inc.	6.31%
	National Financial Services LLC	25.97%
Vanguard Utilities ETF	TD Ameritrade Clearing, Inc.	5.82%
	VANGUARD Marketing Corporation	5.98%
	Charles Schwab & Co., Inc.	14.88%
	National Financial Services LLC	13.62%
Vanguard Utilities ETF	Pershing LLC	5.49%
	TD Ameritrade Clearing, Inc.	10.62%
	VANGUARD Marketing Corporation	22.66%

A shareholder who owns more than 25% of a Fund's voting shares may be considered a controlling person. As of November 30, 2020, the following held of record 25% or more of the voting shares:

Vanguard Fund	Owner	Percentage of Ownership
Vanguard ESG International Stock ETF	VANGUARD Marketing Corporation	39.41%
Vanguard ESG U.S. Corporate Bond ETF	VANGUARD Marketing Corporation	67.78%
Vanguard ESG U.S. Stock ETF	VANGUARD Marketing Corporation	34.26%

Vanguard Fund	Owner	Percentage of Ownership
Vanguard Financials Index Fund	Merrill Lynch, Pierce, Fenner & Smith Incorporated	27.66%
Vanguard Industrials Index Fund	Merrill Lynch, Pierce, Fenner & Smith Incorporated	38.09%
Vanguard Mega Cap Value Index Fund	National Financial Services LLC	25.04%

Portfolio Holdings Disclosure Policies and Procedures

Introduction

Vanguard and the boards of trustees of the Vanguard funds (the Boards) have adopted Portfolio Holdings Disclosure Policies and Procedures (Policies and Procedures) to govern the disclosure of the portfolio holdings of each Vanguard fund. Vanguard and the Boards considered each of the circumstances under which Vanguard fund portfolio holdings may be disclosed to different categories of persons under the Policies and Procedures. Vanguard and the Boards also considered actual and potential material conflicts that could arise in such circumstances between the interests of Vanguard fund shareholders, on the one hand, and those of the fund’s investment advisor, distributor, or any affiliated person of the fund, its investment advisor, or its distributor, on the other. After giving due consideration to such matters and after the exercise of their fiduciary duties and reasonable business judgment, Vanguard and the Boards determined that the Vanguard funds have a legitimate business purpose for disclosing portfolio holdings to the persons described in each of the circumstances set forth in the Policies and Procedures and that the Policies and Procedures are reasonably designed to ensure that disclosure of portfolio holdings and information about portfolio holdings is in the best interests of fund shareholders and appropriately addresses the potential for material conflicts of interest.

The Boards exercise continuing oversight of the disclosure of Vanguard fund portfolio holdings by (1) overseeing the implementation and enforcement of the Policies and Procedures, the Code of Ethics, and the Policies and Procedures Designed to Prevent the Misuse of Inside Information (collectively, the portfolio holdings governing policies) by the chief compliance officer of Vanguard and the Vanguard funds; (2) considering reports and recommendations by the chief compliance officer concerning any material compliance matters (as defined in Rule 38a-1 under the 1940 Act and Rule 206(4)-7 under the Investment Advisers Act of 1940) that may arise in connection with any portfolio holdings governing policies; and (3) considering whether to approve or ratify any amendment to any portfolio holdings governing policies.

Vanguard and the Boards reserve the right to amend the Policies and Procedures at any time and from time to time without prior notice at their sole discretion. For purposes of the Policies and Procedures, the term “portfolio holdings” means the equity and debt securities (e.g., stocks and bonds) held by a Vanguard fund and does not mean the cash investments, derivatives, and other investment positions (collectively, other investment positions) held by the fund.

Online Disclosure of Ten Largest Stock Holdings

Each actively managed Vanguard fund generally will seek to disclose the fund’s ten largest stock portfolio holdings and the percentage of the fund’s total assets that each of these holdings represents as of the end of the most recent calendar quarter (quarter-end ten largest stock holdings with weightings) online at *vanguard.com*, in the “Portfolio” section of the fund’s Portfolio & Management page, 15 calendar days after the end of the calendar quarter. Each Vanguard index fund generally will seek to disclose the fund’s ten largest stock portfolio holdings and the percentage of the fund’s total assets that each of these holdings represents as of the end of the most recent month (month-end ten largest stock holdings with weightings) online at *vanguard.com*, in the “Portfolio” section of the fund’s Portfolio & Management page, 15 calendar days after the end of the month. In addition, Vanguard funds generally will seek to disclose the fund’s ten largest stock portfolio holdings and the aggregate percentage of the fund’s total assets (and, for balanced funds, the aggregate percentage of the fund’s equity securities) that these holdings represent as of the end of the most recent month (month-end ten largest stock holdings) online at *vanguard.com*, in the “Portfolio” section of the fund’s Portfolio & Management page, 10 business days after the end of the month. Together, the quarter-end and month-end ten largest stock holdings are referred to as the ten largest stock holdings. Online disclosure of the ten largest stock holdings is made to all categories of persons, including individual investors, institutional investors, intermediaries, third-party service providers, rating and ranking organizations, affiliated persons of a Vanguard fund, and all other persons.

Online Disclosure of Complete Portfolio Holdings

Each actively managed Vanguard fund, unless otherwise stated, generally will seek to disclose the fund's complete portfolio holdings as of the end of the most recent calendar quarter online at *vanguard.com*, in the "Portfolio" section of the fund's Portfolio & Management page, 30 calendar days after the end of the calendar quarter. Each Vanguard fund relying on Rule 6c-11 under the 1040 Act generally will seek to disclose complete portfolio holdings, including other investment positions, at the beginning of each business day. These portfolio holdings, including other investment positions, will be disclosed online at *vanguard.com* in the "Portfolio" section of the fund's Portfolio & Management page. In accordance with Rule 2a-7 under the 1940 Act, each of the Vanguard money market funds will disclose the fund's complete portfolio holdings as of the last business day of the prior month online at *vanguard.com*, in the "Portfolio" section of the fund's Portfolio & Management page, no later than the fifth business day of the current month. The complete portfolio holdings information for money market funds will remain available online for at least six months after the initial posting. Vanguard Market Neutral Fund and Vanguard Alternative Strategies Fund generally will seek to disclose the Fund's complete portfolio holdings as of the end of the most recent calendar quarter online at *vanguard.com*, in the "Portfolio" section of the Fund's Portfolio & Management page, 60 calendar days after the end of the calendar quarter. Each Vanguard Index fund, other than those Vanguard index funds relying on Rule 6c-11, generally will seek to disclose the fund's complete portfolio holdings as of the end of the most recent month online at *vanguard.com*, in the "Portfolio" section of the fund's Portfolio & Management page, 15 calendar days after the end of the month. Online disclosure of complete portfolio holdings is made to all categories of persons, including individual investors, institutional investors, intermediaries, third-party service providers, rating and ranking organizations, affiliated persons of a Vanguard fund, and all other persons. Vanguard will review complete portfolio holdings before disclosure is made and, except with respect to the complete portfolio holdings of the Vanguard money market funds, may withhold any portion of the fund's complete portfolio holdings from disclosure when deemed to be in the best interests of the fund after consultation with a Vanguard fund's investment advisor.

Disclosure of Complete Portfolio Holdings to Service Providers Subject to Confidentiality and Trading Restrictions

Vanguard, for legitimate business purposes, may disclose Vanguard fund complete portfolio holdings at times it deems necessary and appropriate to rating and ranking organizations; financial printers; proxy voting service providers; pricing information vendors; issuers of guaranteed investment contracts for stable value portfolios; third parties that deliver analytical, statistical, or consulting services; and other third parties that provide services (collectively, Service Providers) to Vanguard, Vanguard subsidiaries, and/or the Vanguard funds. Disclosure of complete portfolio holdings to a Service Provider is conditioned on the Service Provider being subject to a written agreement imposing a duty of confidentiality, including a duty not to trade on the basis of any material nonpublic information.

The frequency with which complete portfolio holdings may be disclosed to a Service Provider, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed to the Service Provider, is determined based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure to a Service Provider varies and may be as frequent as daily, with no lag. Disclosure of Vanguard fund complete portfolio holdings by Vanguard to a Service Provider must be authorized by a Vanguard fund officer or a Principal in Vanguard's Portfolio Review Department or Legal and Compliance Division. Any disclosure of Vanguard fund complete portfolio holdings to a Service Provider as previously described may also include a list of the other investment positions that make up the fund, such as cash investments and derivatives.

Currently, Vanguard discloses complete portfolio holdings to the following Service Providers as part of ongoing arrangements that serve legitimate business purposes: Abel/Noser Corporation; Advisor Software, Inc.; Alcom Printing Group Inc.; Apple Press, L.C.; Bloomberg L.P.; Brilliant Graphics, Inc.; Broadridge Financial Solutions, Inc.; Brown Brothers Harriman & Co.; Canon Business Process Services; Charles River Systems, Inc.; FactSet Research Systems Inc.; Innovation Printing & Communications; Institutional Shareholder Services, Inc.; Intelligencer Printing Company; Investment Technology Group, Inc.; Lipper, Inc.; Markit WSO Corporation; McMunn Associates Inc.; Reuters America Inc.; R.R. Donnelley, Inc.; State Street Bank and Trust Company; and Trade Informatics LLC.

Disclosure of Complete Portfolio Holdings to Vanguard Affiliates and Certain Fiduciaries Subject to Confidentiality and Trading Restrictions

Vanguard may disclose complete portfolio holdings between and among the following persons (collectively, Affiliates and Fiduciaries) for legitimate business purposes within the scope of their official duties and responsibilities, subject to such persons' continuing legal duty of confidentiality and legal duty not to trade on the basis of any material nonpublic information, as such duties are imposed under the Code of Ethics, the Policies and Procedures Designed to Prevent the Misuse of Inside Information, by agreement, or under applicable laws, rules, and regulations: (1) persons who are subject to the Code of Ethics or the Policies and Procedures Designed to Prevent the Misuse of Inside Information; (2) an investment advisor, distributor, administrator, transfer agent, or custodian to a Vanguard fund; (3) an accounting firm, an auditing firm, or outside legal counsel retained by Vanguard, a Vanguard subsidiary, or a Vanguard fund; (4) an investment advisor to whom complete portfolio holdings are disclosed for due diligence purposes when the advisor is in merger or acquisition talks with a Vanguard fund's current advisor; and (5) a newly hired investment advisor or sub-advisor to whom complete portfolio holdings are disclosed prior to the time it commences its duties.

The frequency with which complete portfolio holdings may be disclosed between and among Affiliates and Fiduciaries, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed between and among the Affiliates and Fiduciaries, is determined by such Affiliates and Fiduciaries based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure between and among Affiliates and Fiduciaries varies and may be as frequent as daily, with no lag. Any disclosure of Vanguard fund complete portfolio holdings to any Affiliates and Fiduciaries as previously described may also include a list of the other investment positions that make up the fund, such as cash investments and derivatives. Disclosure of Vanguard fund complete portfolio holdings or other investment positions by Vanguard, VMC, or a Vanguard fund to Affiliates and Fiduciaries must be authorized by a Vanguard fund officer or a Principal of Vanguard.

Currently, Vanguard discloses complete portfolio holdings to the following Affiliates and Fiduciaries as part of ongoing arrangements that serve legitimate business purposes: Vanguard and each investment advisor, custodian, and independent registered public accounting firm identified in each fund's Statement of Additional Information.

Disclosure of Portfolio Holdings to Broker-Dealers in the Normal Course of Managing a Fund's Assets

An investment advisor, administrator, or custodian for a Vanguard fund may, for legitimate business purposes within the scope of its official duties and responsibilities, disclose portfolio holdings (whether partial portfolio holdings or complete portfolio holdings) and other investment positions that make up the fund to one or more broker-dealers during the course of, or in connection with, normal day-to-day securities and derivatives transactions with or through such broker-dealers subject to the broker-dealer's legal obligation not to use or disclose material nonpublic information concerning the fund's portfolio holdings, other investment positions, securities transactions, or derivatives transactions without the consent of the fund or its agents. The Vanguard funds have not given their consent to any such use or disclosure and no person or agent of Vanguard is authorized to give such consent except as approved in writing by the Boards of the Vanguard funds. Disclosure of portfolio holdings or other investment positions by Vanguard to broker-dealers must be authorized by a Vanguard fund officer or a Principal of Vanguard.

Disclosure of Nonmaterial Information

The Policies and Procedures permit Vanguard fund officers, Vanguard fund portfolio managers, and other Vanguard representatives (collectively, Approved Vanguard Representatives) to disclose any views, opinions, judgments, advice, or commentary, or any analytical, statistical, performance, or other information, in connection with or relating to a Vanguard fund or its portfolio holdings and/or other investment positions (collectively, commentary and analysis) or any changes in the portfolio holdings of a Vanguard fund that occurred after the end of the most recent calendar quarter (recent portfolio changes) to any person if (1) such disclosure serves a legitimate business purpose, (2) such disclosure does not effectively result in the disclosure of the complete portfolio holdings of any Vanguard fund (which can be disclosed only in accordance with the Policies and Procedures), and (3) such information does not constitute material nonpublic information. Disclosure of commentary and analysis or recent portfolio changes by Vanguard, VMC, or a Vanguard fund must be authorized by a Vanguard fund officer or a Principal of Vanguard.

An Approved Vanguard Representative must make a good faith determination whether the information constitutes material nonpublic information, which involves an assessment of the particular facts and circumstances. Vanguard

believes that in most cases recent portfolio changes that involve a few or even several securities in a diversified portfolio or commentary and analysis would be immaterial and would not convey any advantage to a recipient in making an investment decision concerning a Vanguard fund. Nonexclusive examples of commentary and analysis about a Vanguard fund include (1) the allocation of the fund's portfolio holdings and other investment positions among various asset classes, sectors, industries, and countries; (2) the characteristics of the stock and bond components of the fund's portfolio holdings and other investment positions; (3) the attribution of fund returns by asset class, sector, industry, and country; and (4) the volatility characteristics of the fund. Approved Vanguard Representatives may, at their sole discretion, deny any request for information made by any person, and may do so for any reason or for no reason. Approved Vanguard Representatives include, for purposes of the Policies and Procedures, persons employed by or associated with Vanguard or a subsidiary of Vanguard who have been authorized by Vanguard's Portfolio Review Department to disclose recent portfolio changes and/or commentary and analysis in accordance with the Policies and Procedures.

Disclosure of Portfolio Holdings, Including Other Investment Positions, in Accordance with Securities and Exchange Commission (SEC) Exemptive Orders and Rule 6c-11

Vanguard's Fund Financial Services unit may disclose to the National Securities Clearing Corporation (NSCC), Authorized Participants, and other market makers the daily portfolio composition files (PCFs) that identify a basket of specified securities that may overlap with the actual or expected portfolio holdings of the Vanguard funds that offer a class of shares known as Vanguard ETF Shares (ETF Funds). Each Vanguard fund relying on Rule 6c-11 under the 1940 Act generally will seek to disclose complete portfolio holdings, including other investment positions, at the beginning of each business day. These portfolio holdings, including other investment positions, will be disclosed online at *vanguard.com* in the "Portfolio" section of a fund's Portfolio & Management page. The disclosure of PCFs and portfolio holdings, including other investment positions, will be in accordance with the terms and conditions of related exemptive orders (Vanguard ETF Exemptive Orders) issued by the SEC or Rule 6c-11 under the 1940 Act, as described in this section.

Unlike the conventional classes of shares issued by ETF Funds, the ETF Shares are listed for trading on a national securities exchange. Each ETF Fund issues and redeems ETF Shares in large blocks, known as "Creation Units." To purchase or redeem a Creation Unit, an investor must be an "Authorized Participant" or the investor must purchase or redeem through a broker-dealer that is an Authorized Participant. An Authorized Participant is a participant in the Depository Trust Company (DTC) that has executed a "Participant Agreement" with VMC. Each ETF Fund issues Creation Units in exchange for a "portfolio deposit" consisting of a basket of specified securities (Deposit Securities) and a cash payment (Balancing Amount). Each ETF Fund also redeems Creation Units in kind; an investor who tenders a Creation Unit will receive, as redemption proceeds, a basket of specified securities together with a Balancing Amount.

In connection with the creation and redemption process, and in accordance with the terms and conditions of the Vanguard ETF Exemptive Orders, Vanguard makes available to the NSCC (a clearing agency registered with the SEC and affiliated with the DTC), for dissemination to NSCC participants on each business day prior to the opening of trading on the listing exchange, a PCF containing a list of the names and the required number of shares of each Deposit Security for each ETF Fund. In addition, the listing exchange disseminates (1) continuously throughout the trading day, through the facilities of the Consolidated Tape Association, the market value of an ETF Share; and (2) every 15 seconds throughout the trading day, a calculation of the estimated NAV of an ETF Share (expected to be accurate to within a few basis points). Comparing these two figures allows an investor to determine whether, and to what extent, ETF Shares are selling at a premium or at a discount to NAV. ETF Shares are listed on the exchange and traded on the secondary market in the same manner as other equity securities. The price of ETF Shares trading on the secondary market is based on a current bid/offer market.

In addition to making PCFs available to the NSCC, as previously described, Vanguard's Fund Financial Services unit may disclose the PCF for any ETF Fund to any person, or online at *vanguard.com* to all categories of persons, if (1) such disclosure serves a legitimate business purpose and (2) such disclosure does not constitute material nonpublic information. Vanguard's Fund Financial Services unit must make a good faith determination whether the PCF for any ETF Fund constitutes material nonpublic information, which involves an assessment of the particular facts and circumstances. Vanguard believes that in most cases the PCF for any ETF Fund would be immaterial and would not convey any advantage to the recipient in making an investment decision concerning the ETF Fund, if sufficient time has

passed between the date of the PCF and the date on which the PCF is disclosed. Vanguard's Fund Financial Services unit may, at its sole discretion, determine whether to deny any request for the PCF for any ETF Fund made by any person, and may do so for any reason or for no reason. Disclosure of a PCF must be authorized by a Vanguard fund officer or a Principal in Vanguard's Fund Financial Services unit.

Disclosure of Portfolio Holdings Related Information to the Issuer of a Security for Legitimate Business Purposes

Vanguard, at its sole discretion, may disclose portfolio holdings information concerning a security held by one or more Vanguard funds to the issuer of such security if the issuer presents, to the satisfaction of Vanguard's Fund Financial Services unit, convincing evidence that the issuer has a legitimate business purpose for such information. Disclosure of this information to an issuer is conditioned on the issuer being subject to a written agreement imposing a duty of confidentiality, including a duty not to trade on the basis of any material nonpublic information. The frequency with which portfolio holdings information concerning a security may be disclosed to the issuer of such security, and the length of the lag, if any, between the date of the information and the date on which the information is disclosed to the issuer, is determined based on the facts and circumstances, including, without limitation, the nature of the portfolio holdings information to be disclosed, the risk of harm to the funds and their shareholders, and the legitimate business purposes served by such disclosure. The frequency of disclosure to an issuer cannot be determined in advance of a specific request and will vary based upon the particular facts and circumstances and the legitimate business purposes, but in unusual situations could be as frequent as daily, with no lag. Disclosure of portfolio holdings information concerning a security held by one or more Vanguard funds to the issuer of such security must be authorized by a Vanguard fund officer or a Principal in Vanguard's Portfolio Review Department or Legal and Compliance Division.

Disclosure of Portfolio Holdings as Required by Applicable Law

Vanguard fund portfolio holdings (whether partial portfolio holdings or complete portfolio holdings) and other investment positions that make up a fund shall be disclosed to any person as required by applicable laws, rules, and regulations. Examples of such required disclosure include, but are not limited to, disclosure of Vanguard fund portfolio holdings (1) in a filing or submission with the SEC or another regulatory body, (2) in connection with seeking recovery on defaulted bonds in a federal bankruptcy case, (3) in connection with a lawsuit, or (4) as required by court order. Disclosure of portfolio holdings or other investment positions by Vanguard, VMC, or a Vanguard fund as required by applicable laws, rules, and regulations must be authorized by a Vanguard fund officer or a Principal of Vanguard.

Prohibitions on Disclosure of Portfolio Holdings

No person is authorized to disclose Vanguard fund portfolio holdings or other investment positions (whether online at *vanguard.com*, in writing, by fax, by email, orally, or by other means) except in accordance with the Policies and Procedures. In addition, no person is authorized to make disclosure pursuant to the Policies and Procedures if such disclosure is otherwise unlawful under the antifraud provisions of the federal securities laws (as defined in Rule 38a-1 under the 1940 Act). Furthermore, Vanguard's management, at its sole discretion, may determine not to disclose portfolio holdings or other investment positions that make up a Vanguard fund to any person who would otherwise be eligible to receive such information under the Policies and Procedures, or may determine to make such disclosures publicly as provided by the Policies and Procedures.

Prohibitions on Receipt of Compensation or Other Consideration

The Policies and Procedures prohibit a Vanguard fund, its investment advisor, and any other person or entity from paying or receiving any compensation or other consideration of any type for the purpose of obtaining disclosure of Vanguard fund portfolio holdings or other investment positions. "Consideration" includes any agreement to maintain assets in the fund or in other investment companies or accounts managed by the investment advisor or by any affiliated person of the investment advisor.

INVESTMENT ADVISORY AND OTHER SERVICES

The Trust currently uses seven investment advisors:

- Baillie Gifford Overseas Ltd. (Baillie Gifford) provides investment advisory services for a portion of Vanguard U.S. Growth Fund and for a portion of Vanguard International Growth Fund.
- Jackson Square Partners, LLC (Jackson Square) provides investment advisory services for a portion of Vanguard U.S. Growth Fund.
- Jennison Associates LLC (Jennison) provides investment advisory services for a portion of Vanguard U.S. Growth Fund.
- Schroder Investment Management North America Inc. (Schroders) provides investment advisory services for a portion of Vanguard International Growth Fund.
- Wellington Management Company LLP (Wellington Management) provides investment advisory services for Vanguard Global Wellington Fund, Vanguard Global Wellesley Income Fund, and a portion of Vanguard U.S. Growth Fund.
- Vanguard provides investment advisory services to Vanguard FTSE Social Index Fund, Vanguard U.S. Sector Index Funds, Vanguard Extended Duration Treasury Index Fund, Vanguard Mega Cap Index Funds, Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF, Vanguard ESG U.S. Corporate Bond ETF, and a portion of Vanguard U.S. Growth Fund.

M&G Investment Management Limited provided investment advisory services for a portion of Vanguard International Growth Fund from 2008 to July 2016. William Blair Investment Management, LLC provided investment advisory services for a portion of Vanguard U.S. Growth Fund from 2004 until December 2018.

For funds that are advised by independent third-party advisory firms unaffiliated with Vanguard, the board of trustees of each fund hires investment advisory firms, not individual portfolio managers, to provide investment advisory services to such funds. Vanguard negotiates each advisory agreement, which contains advisory fee arrangements, on an arm's length basis with the advisory firm. Each advisory agreement is reviewed annually by each fund's board of trustees, taking into account numerous factors, which include, without limitation, the nature, extent, and quality of the services provided; investment performance; and the fair market value of the services provided. Each advisory agreement is between the Trust and the advisory firm, not between the Trust and the portfolio manager. The structure of the advisory fee paid to each unaffiliated investment advisory firm is described in the following sections. In addition, each firm has established policies and procedures designed to address the potential for conflicts of interest. Each firm's compensation structure and management of potential conflicts of interest are summarized by the advisory firm in the following sections for the fiscal year ended August 31, 2020.

A fund is a party to an investment advisory agreement with each of its independent third-party advisors whereby the advisor manages the investment and reinvestment of the portion of the fund's assets that the fund's board of trustees determines to assign to the advisor. In this capacity, each advisor continuously reviews, supervises, and administers the investment program for its portion of the fund's assets. Hereafter, each portion is referred to as the advisor's Portfolio. Each advisor discharges its responsibilities subject to the supervision and oversight of Vanguard's Portfolio Review Department and the officers and trustees of the fund. Vanguard's Portfolio Review Department is responsible for recommending changes in a fund's advisory arrangements to the fund's board of trustees, including changes in the amount of assets allocated to each advisor and recommendations to hire, terminate, or replace an advisor.

I. Vanguard U.S. Growth Fund

The Fund pays each of its investment advisors a base fee plus or minus a performance adjustment. The base fee, which is paid quarterly, is a percentage of average daily net assets managed by the advisor during the most recent fiscal quarter. The base fee has breakpoints, which means that the percentage declines as assets go up. The performance adjustment, also paid quarterly, is based on the cumulative total return of each advisor's portion of the Fund relative to that of the Russell 1000 Growth Index (the S&P 500 Index for Baillie Gifford) over the preceding 36-month period.

During the fiscal years ended August 31, 2018, 2019, and 2020, Vanguard U.S. Growth Fund incurred aggregate investment advisory fees of approximately \$15,434,000 (before a performance-based increase of \$516,000), and \$24,436,000 (before a performance-based increase of \$1,527,000), and \$39,631,000 (before a performance-based increase of \$6,030,000) respectively.

Baillie Gifford Overseas Ltd. (Baillie Gifford)

Baillie Gifford is an investment advisory firm founded in 1983. Baillie Gifford is wholly owned by a Scottish investment company, Baillie Gifford & Co. Founded in 1908, Baillie Gifford & Co., which is one of the largest independently owned investment management firms in the United Kingdom, manages money primarily for institutional clients.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Gary Robinson	Registered investment companies ¹	3	\$ 40B	1	\$ 40B
	Other pooled investment vehicles	6	\$8.9B	0	\$ 0
	Other accounts	15	\$3.6B	0	\$ 0
Tom Slater	Registered investment companies ¹	3	\$ 41B	1	\$ 40B
	Other pooled investment vehicles	7	\$ 36B	0	\$ 0
	Other accounts	89	\$ 58B	6	\$4.7B

¹ Includes Vanguard U.S. Growth Fund which held assets of \$40 billion as of August 31, 2020.

2. Material Conflicts of Interest

At Baillie Gifford, individual portfolio managers may manage multiple accounts for multiple clients. In addition to mutual funds, these other accounts may include separate accounts, collective investment schemes, or offshore funds. Baillie Gifford manages potential conflicts between funds or with other types of accounts by implementing effective organizational and administrative arrangements to ensure that reasonable steps are taken to prevent the conflict giving rise to a material risk of damage to the interests of clients.

One area where a conflict of interest potentially arises is in the placing of orders for multiple clients and subsequent allocation of trades. Unless client-specific circumstances dictate otherwise, investment teams normally implement transactions in individual stocks for all clients with similar mandates at the same time. This aggregation of individual transactions can, of course, operate to the advantage or disadvantage of the clients involved in the order. When receiving orders from investment managers, traders at Baillie Gifford will generally treat order priority on a "first come, first served" basis, and any exceptions to this are permitted only in accordance with established policies. Baillie Gifford has also developed trade allocation systems and controls to ensure that no one client, regardless of type, is intentionally favored at the expense of another. Allocation policies are designed to address potential conflicts in situations where two or more funds or accounts participate in investment decisions involving the same securities. Investment personnel of the firm or its affiliates may be permitted to be commercially or professionally involved with an issuer of securities. Any potential conflicts of interest from such involvement would be monitored for compliance with the firm's Code of Ethics.

3. Description of Compensation

Mr. Slater and Mr. Robinson are partners of Baillie Gifford & Co. As such, each receives a base salary and a share of the partnership profits. The profit share is calculated as a percentage of total partnership profits based on seniority, role within Baillie Gifford & Co., and length of service. The basis for the profit share is detailed in the Baillie Gifford Partnership Agreement. The main staff benefits, such as pension schemes, are not available to partners and therefore partners provide for benefits from their own personal funds.

4. Ownership of Securities

As of August 31, 2020, Mr. Slater and Mr. Robinson did not own any shares of Vanguard U.S. Growth Fund.

B. Jackson Square Partners, LLC (Jackson Square)

Jackson Square Partners, LLC, is an investment management firm founded in 2014. Jackson Square is organized as a Delaware limited liability company with principal offices at One Letterman Drive, Building A, Suite A3-200, San Francisco, CA 94129.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Christopher Ericksen	Registered investment companies ¹	10	\$ 50B	3	\$ 46B
	Other pooled investment vehicles	3	\$283M	0	\$ 0
	Other accounts	18	\$ 3.4B	1	\$282M
Billy Montana	Registered investment companies ²	9	\$ 3.6B	0	\$ 0
	Other pooled investment vehicles	3	\$283M	0	\$ 0
	Other accounts	15	\$ 3.4B	1	\$282M
Daniel Prislín	Registered investment companies ¹	11	\$ 50B	3	\$ 46B
	Other pooled investment vehicles	3	\$283M	0	\$ 0
	Other accounts	25	\$ 3.6B	2	\$505M
Jeffrey Van Harte	Registered investment companies ¹	11	\$ 50B	3	\$ 46B
	Other pooled investment vehicles	3	\$283M	0	\$ 0
	Other accounts	22	\$ 3.7B	2	\$505M

¹ Includes Vanguard U.S. Growth Fund which held assets of \$40 billion as of August 31, 2020.

² Mr. Montana began co-managing Vanguard U.S. Growth Fund on December 22, 2020. Information provided herein for Mr. Montana is as of August 31, 2020.

2. Material Conflicts of Interest

Jackson Square serves as investment advisor or sub-advisor on behalf of a variety of products and clients. With these roles comes potential conflicts of interest. As defined under the Advisers Act, in its role as investment advisor, Jackson Square has a fiduciary duty to provide disinterested advice and disclose any material conflicts of interests to its clients. The firm has adopted the Side by Side Management Policy that requires all client portfolios for which the firm exercises investment discretion be managed in a like fashion, regardless of the fee structure or profitability of a particular client or a particular type of client or whether Covered Persons have an economic interest in the client (e.g., ownership of shares of a mutual fund sub-advised by Jackson Square). It is within these guidelines that Jackson Square understands the importance of not only disclosure of these conflicts but also the related implications of the management and mitigation of those conflicts. Below are some of the measures taken by Jackson Square to disclose and assist in the management and mitigation of conflicts that relate to the management of a variety of types of client accounts, including accounts that are charged performance-based fees.

Jackson Square discloses to clients the risks and implications of conflicts identified with providing investment advice to client accounts with varying fee structures in Part 2A of the firm's Form ADV, through its policies and procedures and through the appropriate related fund or account offering documents. In addition, the compensation models for portfolio managers are not structured to induce the portfolio manager to treat clients unfairly.

Jackson Square's policies and procedures such as: Allocation of Aggregated Trades and Allocation of IPOs assist in the equitable treatment of clients. In instances where unique requirements or restrictions are needed based on the identification of different conflicts, Jackson Square will establish additional policies and controls or develop alternate processing requirements to assist in the mitigation of these conflicts.

To mitigate these conflicts, Jackson Square conducts ongoing surveillance of accounts.

Composite performance results are regularly reviewed by the portfolio management team as well as the traders and compliance to identify and assess variances within accounts in each composite. Those variances that are not able to be

reasonably assessed are escalated for further review to the Chief Compliance Officer and the Compliance Committee.

In addition to the aforementioned, investment professionals may receive annual incentive compensation that is, in part, based on the investment performance of certain client accounts. To address this potential conflict, Jackson Square has structured its compensation plan for investment personnel so as not to incentivize out-performance in one fund or account at the expense of the other funds or accounts managed by the investment personnel. These parameters of measuring bonuses may include a performance component that measures performance of the fund or account relative to the fund's or account's relevant peer group. Though the peer group differ, the parameters are identical for funds or other accounts. In addition, investment professionals have personal ownership interests in certain of the funds advised and sub-advised by Jackson Square. All such funds are considered affiliated mutual funds for purposes of the Code of Ethics. Under the Code of Ethics, Jackson Square has adopted personal trading requirements to identify such ownership interests and requires pre-approval and minimum holding periods for affiliated mutual fund transactions. Investment personnel of the firm or its affiliates may be permitted to be commercially or professionally involved with an issuer of securities. Any potential conflicts of interest from such involvement would be monitored for compliance with the firm's Code of Ethics.

3. Description of Compensation

Compensation paid to the Investment Team is a combination of base salary, annual discretionary bonuses and partnership distributions where applicable. Jackson Square believes this combination provides the proper incentives to reward a prudent long-term focus on building a stable and sustainable business while also rewarding professionals for superior interim results. The philosophy behind the discretionary annual bonus is a function of Jackson Square's investment professionals working together for well over a decade on average and bound by culture and the unique nature of the team's research/portfolio manager role. The team has maintained a meritocratic and a very strong pay-for-performance ethos, which rewards positive impact to client portfolios, through various market and organizational circumstances over the years. Each stock in each portfolio has two or more 'sponsors' who have mathematical ownership of those names for performance attribution purposes (e.g., 60/40 or 50/50 responsibility splits). This stock-by-stock attribution can then be aggregated across strategies and the individual contributions of team members measured down to the basis point for each relevant performance period in question: one-, three-, and five-year and since inception. Attention is also paid to strategy performance if an individual is a named portfolio manager in the strategy. Aggregate compensation is driven by revenues, which, in turn, is correlated with assets managed, which is driven by performance. This is a self-reinforcing cycle of better performance leading to more assets, both via flows and appreciation, and higher revenues and compensation.

Additionally, qualitative factors beyond the straightforward mathematics of individual investment performance attribution, such as contribution to the debates of other team members' ideas and occasional business responsibilities are also considered, rounding out an individual's total compensation.

4. Ownership of Securities

As of August 31, 2020, Mr. Van Harte owned shares of Vanguard U.S. Growth Fund in an amount exceeding \$1 million. As of the same date, none of the other named portfolio managers owned any shares of Vanguard U.S. Growth Fund.

C. Jennison Associates LLC (Jennison)

Jennison (including its predecessor, Jennison Associates Capital Corp.), a registered investment advisor founded in 1969, is an indirect, wholly owned subsidiary of Prudential Financial, Inc.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Kathleen A. McCarragher	Registered investment companies ¹	21	\$ 40B	1	\$40B
	Other pooled investment vehicles	7	\$ 4.4B	0	\$ 0
	Other accounts	6	\$ 1B	0	\$ 0
Blair A. Boyer	Registered investment companies ¹	16	\$ 40B	1	\$40B
	Other pooled investment vehicles	7	\$ 4.4B	0	\$ 0
	Other accounts	31	\$10.2B	0	\$ 0

¹ Includes Vanguard U.S. Growth Fund which held assets of \$40 billion as of August 31, 2020.

2. Material Conflicts of Interest

Jennison manages accounts with asset-based fees alongside accounts with performance-based fees. This side-by-side management can create an incentive for Jennison and its investment professionals to favor one account over another. Specifically, Jennison has the incentive to favor accounts for which it receives performance fees, and possibly take greater investment risks in those accounts, in order to bolster performance and increase its fees.

Other types of side-by-side management of multiple accounts can also create incentives for Jennison to favor one account over another. Examples are detailed below, followed by a discussion of how Jennison addresses these conflicts.

- Long only accounts/long-short accounts: Jennison manages accounts in strategies that only hold long securities positions as well as accounts in strategies that are permitted to sell securities short. Jennison may hold a long position in a security in some client accounts while selling the same security short in other client accounts. For example, Jennison permits quantitatively hedged strategies to short securities that are held long in other strategies. Additionally, Jennison permits securities that are held long in quantitatively derived strategies to be shorted by other strategies. The strategies that sell a security short held long by another strategy could lower the price for the security held long. Similarly, if a strategy is purchasing a security that is held short in other strategies, the strategies purchasing the security could increase the price of the security held short.
- Multiple strategies: Jennison may buy or sell, or may direct or recommend that one client buy or sell, securities of the same kind or class that are purchased or sold for another client, at prices that may be different. Jennison may also, at any time, execute trades of securities of the same kind or class in one direction for an account and in the opposite direction for another account, due to differences in investment strategy or client direction. Different strategies effecting trading in the same securities or types of securities may appear as inconsistencies in Jennison's management of multiple accounts side-by-side.
- Investments at different levels of an issuer's capital structure: To the extent different clients invest across multiple strategies or asset classes, Jennison may invest client assets in the same issuer, but at different levels in the capital structure. Interests in these positions could be inconsistent or in potential or actual conflict with each other.
- Affiliated accounts/unaffiliated accounts and seeded/nonseeded accounts and accounts receiving asset allocation assets from affiliated investment advisers: Jennison manages accounts for its affiliates and accounts in which it has an interest alongside unaffiliated accounts. Jennison could have an incentive to favor its affiliated accounts over unaffiliated accounts. Additionally, Jennison's affiliates may provide initial funding or otherwise invest in vehicles managed by Jennison. When an affiliate provides "seed capital" or other capital for a fund or account, it may do so with the intention of redeeming all or part of its interest at a particular future point in time or when it deems that sufficient additional capital has been invested in that fund or account. Jennison typically requests seed capital to start a track record for a new strategy or product. Managing "seeded" accounts alongside "nonseeded" accounts can create an incentive to favor the seeded accounts to establish a track record for a new strategy or product. Additionally, Jennison's affiliated investment advisers could allocate their asset allocation clients' assets to Jennison. Jennison could favor accounts used by its affiliate for their asset allocation clients to receive more assets from the affiliate.

■ Nondiscretionary accounts or models: Jennison provides nondiscretionary model portfolios to some clients and manages other portfolios on a discretionary basis. Recommendations for some non discretionary models that are derived from discretionary portfolios are communicated after the discretionary portfolio has traded. The nondiscretionary clients could be disadvantaged if Jennison delivers the model investment portfolio to them after Jennison initiates trading for the discretionary clients, or vice versa.

■ Higher fee paying accounts or products or strategies: Jennison receives more revenues (1) from larger accounts or client relationships than smaller accounts or client relationships, (2) from managing discretionary accounts than advising non-discretionary models, (3) from non-wrap fee accounts than from wrap fee accounts, and (4) from charging higher fees for some strategies than others. The differences in revenue that Jennison receives could create an incentive for Jennison to favor the higher fee paying or higher revenue generating account or product or strategy over another.

■ Personal interests: The performance of one or more accounts managed by Jennison's investment professionals is taken into consideration in determining their compensation. Jennison also manages accounts that are investment options in its employee benefit plans such as its defined contribution plans or deferred compensation arrangements and where its employees may have personally invested alongside other accounts where there is no personal interest. These factors could create an incentive for Jennison to favor the accounts where Jennison has a personal interest over accounts where Jennison does not have a personal interest.

How Jennison Addresses These Conflicts of Interest

The conflicts of interest described above could create incentives for Jennison to favor one or more accounts or types of accounts over others in the allocation of investment opportunities, time, aggregation, and timing of investments. Portfolios in a particular strategy with similar objectives are managed similarly to the extent possible. Accordingly, portfolio holdings and industry and sector exposure tend to be similar across a group of accounts in a strategy that have similar objectives, which tends to minimize the potential for conflicts of interest among accounts within a product strategy. While these accounts have many similarities, the investment performance of each account will be different primarily due to differences in guidelines, individual portfolio manager's decisions, timing of investments, fees, expenses, and cash flows.

Additionally, Jennison has developed policies and procedures that seek to address, mitigate, and assess these conflicts of interest.

■ Jennison has adopted trade aggregation and allocation procedures that seek to treat all clients (including affiliated accounts) fairly and equitably. These policies and procedures address the allocation of limited investment opportunities, such as initial public offerings (IPOs) and new issues, the allocation of transactions across multiple accounts, and the timing of transactions between its non-wrap accounts and its wrap fee accounts.

■ Jennison has policies that limit the ability to short securities in portfolios that primarily rely on its fundamental research and investment processes (fundamental portfolios) if the security is held long in other fundamental portfolios.

■ Jennison has adopted procedures to review allocations or performance dispersion between accounts with performance fees and non-performance fee based accounts and to review overlapping long and short positions among long accounts and long-short accounts.

■ Jennison has adopted a code of ethics and policies relating to personal trading.

■ Jennison provides disclosure of these conflicts as described in its Form ADV brochure.

Investment personnel of the firm or its affiliates may be permitted to be commercially or professionally involved with an issuer of securities. Any potential conflicts of interest from such involvement would be monitored for compliance with the firm's Code of Ethics.

3. Description of Compensation

Jennison seeks to maintain a highly competitive compensation program designed to attract and retain outstanding investment professionals, which include portfolio managers and research analysts, and to align the interests of its investment professionals with those of its clients and overall firm results. Jennison recognizes individuals for their

achievements and contributions and continues to promote those who exemplify the same values and level of commitment that are hallmarks of the organization. Investment professionals are compensated with a combination of base salary and discretionary cash bonus. Overall firm profitability determines the size of the investment professional compensation pool. In general, the discretionary cash bonus represents the majority of an investment professional's compensation.

Jennison sponsors a profit-sharing retirement plan for all eligible employees. The contribution to the profit-sharing retirement plan for portfolio managers is based on a percentage of the portfolio manager's total compensation, subject to a maximum determined by applicable law. In addition to eligibility to participate in retirement and welfare plans, senior investment professionals, including portfolio managers and senior research analysts, are eligible to participate in a voluntary deferred compensation program where all or a portion of the discretionary cash bonus can be deferred. Participants in the deferred compensation plan are permitted to allocate the deferred amounts among various options that track the gross-of-fee pre-tax performance of accounts or composites of accounts managed by Jennison.

Investment professionals' total compensation is determined through a subjective process that evaluates numerous qualitative and quantitative factors. Not all factors are applicable to every investment professional, and there is no particular weighting or formula for considering the factors. The factors reviewed for the portfolio managers are listed below.

The quantitative factors reviewed for the portfolio managers may include:

- One-year, three-year, five-year, and longer-term pre-tax investment performance for groupings of accounts managed in the same strategy (composite) relative to market conditions, predetermined passive indices, and industry peer-group data for the product strategy (e.g., large-cap growth, large-cap value). Some portfolio managers may manage or contribute ideas to more than one product strategy, and the performance of the other product strategies is also considered in determining the portfolio manager's overall compensation.
- The investment professional's contribution to client portfolio's pre-tax one-year, three-year, five-year, and longer-term performance from the investment professional's recommended stocks relative to market conditions, the strategy's passive benchmarks, and the investment professional's respective coverage universes.

The qualitative factors reviewed for the portfolio managers may include:

- The quality of the portfolio manager's investment ideas and consistency of the portfolio manager's judgment;
- Qualitative factors such as teamwork and responsiveness;
- Individual factors such as years of experience and responsibilities specific to the individual's role, such as being a team leader or supervisor, are also factored into the determination of an investment professional's total compensation; and
- Historical and long-term business potential of the product strategies.

4. Ownership of Securities

As of August 31, 2020, Ms. McCarragher and Mr. Boyer did not own any shares of Vanguard U.S Growth Fund.

D. Wellington Management Company LLP (Wellington Management)

Wellington Management is a Delaware limited liability partnership with principal offices at 280 Congress Street, Boston, MA 02210. As of August 31, 2020, the firm is owned by 172 partners, all fully active in the business of the firm. Wellington Management is a professional investment counseling firm that provides investment services to investment companies, employee benefit plans, endowments, foundations, and other institutions. Wellington Management and its predecessor organizations have provided investment advisory services for over 80 years.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio manager of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Andrew J. Shilling	Registered investment companies ¹	3	\$ 42B	2	\$41B
	Other pooled investment vehicles	5	\$3.5B	0	\$ 0
	Other accounts	16	\$5.3B	0	\$ 0

¹ Includes Vanguard U.S. Growth Fund which held assets of \$40 billion as of August 31, 2020.

2. Material Conflicts of Interest

Individual investment professionals at Wellington Management manage multiple accounts for multiple clients. These accounts may include mutual funds, separate accounts (assets managed on behalf of institutions, such as pension funds, insurance companies, foundations, or separately managed account programs sponsored by financial intermediaries), bank common trust accounts, and hedge funds. The Wellington Management Portfolio's or Fund's manager listed in the prospectus who is primarily responsible for the day-to-day management of the Wellington Management Portfolio or Fund (Portfolio Manager) generally manages accounts in several different investment styles. These accounts may have investment objectives, strategies, time horizons, tax considerations, and risk profiles that differ from those of the Wellington Management Portfolio or Fund. The Portfolio Manager makes investment decisions for each account, including the Wellington Management Portfolio or Fund, based on the investment objectives, policies, practices, benchmarks, cash flows, tax, and other relevant investment considerations applicable to that account. Consequently, the Portfolio Manager may purchase or sell securities, including initial public offerings (IPOs), for one account and not another account, and the performance of securities purchased for one account may vary from the performance of securities purchased for other accounts. Alternatively, these accounts may be managed in a similar fashion to the Wellington Management Portfolio or Fund and thus the accounts may have similar—and in some cases nearly identical—objectives, strategies, and/or holdings to those of the Wellington Management Portfolio or Fund.

The Portfolio Manager or other investment professionals at Wellington Management may place transactions on behalf of other accounts that are directly or indirectly contrary to investment decisions made on behalf of the Wellington Management Portfolio or Fund, or make investment decisions that are similar to those made for the Wellington Management Portfolio or Fund, both of which have the potential to adversely impact the Wellington Management Portfolio or Fund depending on market conditions. For example, an investment professional may purchase a security in one account while appropriately selling that same security in another account. Similarly, the Portfolio Manager may purchase the same security for the Wellington Management Portfolio or Fund and one or more other accounts at or about the same time. In those instances, the other accounts will have access to their respective holdings prior to the public disclosure of the Wellington Management Portfolio's or Fund's holdings. In addition, some of these accounts have fee structures, including performance fees, which are or have the potential to be higher, in some cases significantly higher, than the fees Wellington Management receives for managing the Wellington Management Portfolio or Fund. Mr. Shilling also manages an account that pays performance allocations to Wellington Management or its affiliates. Because incentive payments paid by Wellington Management to the Portfolio Manager are tied to revenues earned by Wellington Management and, where noted, to the performance achieved by the manager in each account, the incentives associated with any given account may be significantly higher or lower than those associated with other accounts managed by a given Portfolio Manager. Finally, the Portfolio Manager may hold shares or investments in the other pooled investment vehicles and/or other accounts identified above.

Wellington Management's goal is to meet its fiduciary obligation to treat all clients fairly and provide high-quality investment services to all of its clients. Wellington Management has adopted and implemented policies and procedures, including brokerage and trade allocation policies and procedures, which it believes address the conflicts associated with managing multiple accounts for multiple clients. In addition, Wellington Management monitors a variety of areas, including compliance with primary account guidelines, the allocation of IPOs, and compliance with the firm's Code of Ethics, and places additional investment restrictions on investment professionals who manage hedge funds and certain other accounts. Furthermore, senior investment and business personnel at Wellington Management periodically review the performance of Wellington Management's investment professionals. Although Wellington Management does not track the time an investment professional spends on a single account, Wellington Management does periodically assess whether an investment professional has adequate time and resources to effectively manage the investment professional's various client mandates.

3. Description of Compensation

Wellington Management receives a fee based on the assets under management of the Wellington Management Portfolio or Fund as set forth in the Investment Advisory Wellington Management and the Trust on behalf of the Fund. Wellington Management pays its investment professionals out of its total revenues, including the advisory fees earned with respect to the Wellington Management Portfolio or Fund. The following relates to the fiscal year ended August 31, 2020.

Wellington Management's compensation structure is designed to attract and retain high-caliber investment professionals necessary to deliver high-quality investment management services to its clients. Wellington Management's compensation of the Wellington Management Portfolio's or Fund's manager listed in the prospectus who is primarily responsible for the day-to-day management of the Wellington Management Portfolio or Fund includes a base salary and incentive components. The base salary for the Portfolio Manager who is a partner (a "Partner") of Wellington Management Group LLP, the ultimate holding company of Wellington Management, is generally a fixed amount that is determined by the managing partners of Wellington Management Group LLP.

The Portfolio Manager is eligible to receive an incentive payment based on the revenues earned by Wellington Management from the Wellington Management Portfolio and generally each other account managed by such Portfolio Manager. The Portfolio Manager's incentive payment relating to the Wellington Management Portfolio is linked to the net pre-tax performance of the Wellington Management Portfolio compared to the Russell 1000 Growth Index over one-, three-, and five-year periods, with an emphasis on five-year results. Wellington Management applies similar incentive compensation structures (although the benchmarks or peer groups, time periods, and rates may differ) to other accounts managed by the Portfolio Manager, including accounts with performance fees.

Portfolio-based incentives across all accounts managed by an investment professional can, and typically do, represent a significant portion of an investment professional's overall compensation; incentive compensation varies significantly by individual and can vary significantly from year to year. The Portfolio Manager may also be eligible for bonus payments based on his overall contribution to Wellington Management's business operations. Senior management at Wellington Management may reward individuals as it deems appropriate based on other factors. Each Partner is eligible to participate in a Partner-funded tax-qualified retirement plan, the contributions to which are made pursuant to an actuarial formula. Mr. Shilling is a Partner.

4. Ownership of Securities

As of August 31, 2020, Mr. Shilling owned shares of Vanguard U.S. Growth Fund in an amount exceeding \$1 million.

E. Vanguard

Vanguard, through its Quantitative Equity Group, provides investment advisory services for a portion of Vanguard U.S. Growth Fund's assets. The compensation and other expenses of Vanguard's advisory staff are allocated among the funds utilizing Vanguard's advisory services.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
James P. Stetler	Registered investment companies ¹	13	\$167B	0	\$0
	Other pooled investment vehicles	2	\$ 77M	0	\$0
	Other accounts	0	\$ 0	0	\$0
Binbin Guo	Registered investment companies ¹	13	\$167B	0	\$0
	Other pooled investment vehicles	2	\$ 77M	0	\$0
	Other accounts	0	\$ 0	0	\$0

¹ Includes Vanguard U.S. Growth Fund which held assets of \$40 billion as of August 31, 2020.

2. Material Conflicts of Interest

At Vanguard, individual portfolio managers may manage multiple accounts for multiple clients. In addition to mutual funds, these accounts may include separate accounts, collective trusts, and offshore funds. Managing multiple funds or accounts may give rise to potential conflicts of interest including, for example, conflicts among investment strategies and conflicts in the allocation of investment opportunities. Vanguard manages potential conflicts between funds or accounts through allocation policies and procedures, internal review processes, and oversight by trustees and independent third parties. Vanguard has developed trade allocation procedures and controls to ensure that no one client, regardless of type, is intentionally favored at the expense of another. Allocation policies are designed to address potential conflicts in situations in which two or more funds or accounts participate in investment decisions involving the same securities.

3. Description of Compensation

All Vanguard portfolio managers are Vanguard employees. This section describes the compensation of the Vanguard employees who manage Vanguard mutual funds. As of August 31, 2020, a Vanguard portfolio manager's compensation generally consists of base salary, bonus, and payments under Vanguard's long-term incentive compensation program. In addition, portfolio managers are eligible for the standard retirement benefits and health and welfare benefits available to all Vanguard employees. Also, certain portfolio managers may be eligible for additional retirement benefits under several supplemental retirement plans that Vanguard adopted in the 1980s to restore dollar-for-dollar the benefits of management employees that had been cut back solely as a result of tax-law changes. These plans are structured to provide the same retirement benefits as the standard retirement plans.

In the case of portfolio managers responsible for managing multiple Vanguard funds or accounts, the method used to determine their compensation is the same for all funds and investment accounts. A portfolio manager's base salary is determined by the manager's experience and performance in the role, taking into account the ongoing compensation benchmark analyses performed by Vanguard's Human Resources Department. A portfolio manager's base salary is generally a fixed amount that may change as a result of an annual review, upon assumption of new duties, or when a market adjustment of the position occurs.

A portfolio manager's bonus is determined by a number of factors. One factor is gross, pre-tax performance of the fund relative to expectations for how the fund should have performed, given the fund's investment objective, policies, strategies, and limitations, and the market environment during the measurement period. This performance factor is not based on the amount of assets held in any individual fund's portfolio. For the portion of Vanguard U.S. Growth Fund managed by Vanguard, the performance factor depends on how successfully the portfolio manager outperforms these expectations and maintains the risk parameters of the Fund over a three-year period. Additional factors include the portfolio manager's contributions to the investment management functions within the sub-asset class, contributions to the development of other investment professionals and supporting staff, and overall contributions to strategic planning and decisions for the investment group. The target bonus is expressed as a percentage of base salary. The actual bonus paid may be more or less than the target bonus, based on how well the manager satisfies the objectives previously described. The bonus is paid on an annual basis.

Under the long-term incentive compensation program, all full-time employees receive a payment from Vanguard's long-term incentive compensation plan based on their years of service, job level, and, if applicable, management responsibilities. Each year, Vanguard's independent directors determine the amount of the long-term incentive compensation award for that year based on the investment performance of the Vanguard funds relative to competitors and Vanguard's operating efficiencies in providing services to the Vanguard funds.

4. Ownership of Securities

As of August 31, 2020, Mr. Stetler and Mr. Guo did not own any shares of Vanguard U.S. Growth Fund.

II. Vanguard International Growth Fund

The Fund pays each of its independent third-party investment advisors a base fee plus or minus a performance adjustment. The base fee, which is paid quarterly, is a percentage of average daily net assets managed by the advisor during the most recent fiscal quarter. The base fee has breakpoints, which means that the percentage declines as assets go up. The performance adjustment, also paid quarterly, is based on the cumulative total return of each advisor's portion of the Fund relative to that of the MSCI ACWI ex USA Index over the preceding 36-month period.

During the fiscal years ended August 31, 2018, 2019, and 2020, Vanguard International Growth Fund incurred aggregate investment advisory fees of approximately \$50,854,000 (before a performance-based increase of \$9,431,000), \$49,469,000 (before a performance-based increase of \$10,483,000), and \$58,605,000 (before a performance-based increase of \$15,743,000) respectively.

Sub-Advisor—Schroder Investment Management North America Limited

The Fund has entered into a sub-advisory agreement with Schroder Investment Management North America Inc. (Schroders) and Schroder Investment Management North America Limited (Schroder Limited) pursuant to which Schroder Limited has primary responsibility for choosing investments for the Fund.

Under the terms of the sub-advisory agreement for the Fund, Schroders pays Schroder Limited a portion of the advisory fee actually paid to Schroders under its investment advisory agreement with the Fund.

Baillie Gifford Overseas Ltd. (Baillie Gifford)

Baillie Gifford is an investment advisory firm founded in 1983. Baillie Gifford is wholly owned by a Scottish investment company, Baillie Gifford & Co. Founded in 1908, Baillie Gifford & Co., which is one of the largest independently owned investment management firms in the United Kingdom, manages money primarily for institutional clients.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
James K. Anderson	Registered investment companies ¹	4	\$ 64B	2	\$ 60B
	Other pooled investment vehicles	7	\$23.3B	1	\$98M
	Other accounts	37	\$20.2B	0	\$ 0
Lawrence Burns	Registered investment companies ²	2	\$ 4.2B	0	\$ 0
	Other pooled investment vehicles	6	\$ 2.7B	1	\$98M
	Other accounts	37	\$20.2B	0	\$ 0
Thomas Coutts	Registered investment companies ¹	3	\$ 64B	2	\$ 60B
	Other pooled investment vehicles	5	\$ 2.7B	1	\$98M
	Other accounts	34	\$19.8B	0	\$ 0

¹ Includes Vanguard International Growth Fund which held assets of \$57 billion as of August 31, 2020.

² Mr. Burns began co-managing Vanguard International Growth Fund on December 22, 2020. Information provided herein for Mr. Burns is as of August 31, 2020.

2. Material Conflicts of Interest

At Baillie Gifford, individual portfolio managers may manage multiple accounts for multiple clients. In addition to mutual funds, these other accounts may include separate accounts, collective investment schemes, or offshore funds. Baillie Gifford manages potential conflicts between funds or with other types of accounts by implementing effective organizational and administrative arrangements to ensure that reasonable steps are taken to prevent the conflict giving rise to a material risk of damage to the interests of clients.

One area where a conflict of interest potentially arises is in the placing of orders for multiple clients and subsequent allocation of trades. Unless client-specific circumstances dictate otherwise, investment teams normally implement transactions in individual stocks for all clients with similar mandates at the same time. This aggregation of individual transactions can, of course, operate to the advantage or disadvantage of the clients involved in the order. When receiving orders from investment managers, traders at Baillie Gifford will generally treat order priority on a “first come, first served” basis, and any exceptions to this are permitted only in accordance with established policies. Baillie Gifford has also developed trade allocation systems and controls to ensure that no one client, regardless of type, is intentionally favored at the expense of another. Allocation policies are designed to address potential conflicts in

situations where two or more funds or accounts participate in investment decisions involving the same securities. Investment personnel of the firm or its affiliates may be permitted to be commercially or professionally involved with an issuer of securities. Any potential conflicts of interest from such involvement would be monitored for compliance with the firm's Code of Ethics.

3. Description of Compensation

Mr. Anderson, Mr. Coutts, and Mr. Burns are Partners of Baillie Gifford & Co. As such, each receives a base salary and a share of the partnership profits. The profit share is calculated as a percentage of total partnership profits based on seniority, role within Baillie Gifford & Co., and length of service. The basis for the profit share is detailed in the Baillie Gifford Partnership Agreement. The main staff benefits, such as pension schemes, are not available to partners, and therefore partners provide for benefits from their own personal funds.

4. Ownership of Securities

As of August 31, 2020, Mr. Anderson, Mr. Coutts, and Mr. Burns did not own any shares of Vanguard International Growth Fund.

B. Schroder Investment Management North America Inc. (Schroders)

Each of Schroders and Schroder Limited is an indirect wholly owned subsidiary of Schroders plc, the ultimate parent of a large worldwide group of financial service companies with subsidiaries and branches and representative offices located in 32 locations. Schroders plc is a publicly owned holding company organized under the laws of England. Schroders plc and its affiliates specialize in providing investment management services.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio manager of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
James Gautrey	Registered investment companies ²	4	\$ 2.5B	0	\$0
	Other pooled investment vehicles	3	\$561.3M	0	\$0
	Other accounts	11	\$ 3.2B	0	\$0
Simon Webber	Registered investment companies ¹	6	\$ 59B	0	\$0
	Other pooled investment vehicles	4	\$ 1.7B	0	\$0
	Other accounts	11	\$ 3.2B	0	\$0

¹ Includes Vanguard International Growth Fund which held assets of \$57 billion as of August 31, 2020.

² Mr. Gautrey began co-managing Vanguard International Growth Fund on December 22, 2020. Information provided herein for Mr. Gautrey is as of August 31, 2020.

2. Material Conflicts of Interest

Whenever a portfolio manager of the Schroders Portfolio manages other accounts, potential conflicts of interest exist, including potential conflicts between the investment strategy of the Schroders Portfolio and the investment strategy of the other accounts. For example, in certain instances, a portfolio manager may take conflicting positions in a particular security for different accounts by selling a security for one account and continuing to hold it for another account. In addition, the fact that other accounts require the portfolio manager to devote less than all of his or her time to the Schroders Portfolio may be seen itself to constitute a conflict with the interest of the Schroders Portfolio.

A portfolio manager may also execute transactions for another fund or account at the direction of such fund or account that may adversely impact the value of securities held by the Schroders Portfolio. Securities selected for funds or accounts other than the Schroders Portfolio may outperform the securities selected for the Schroders Portfolio. Finally, if a portfolio manager identifies a limited investment opportunity that may be suitable for more than one fund or other account, the Schroders Portfolio may not be able to take full advantage of that opportunity because of an allocation of that opportunity across all eligible funds and accounts.

At Schroders, individual portfolio managers may manage multiple accounts for multiple clients. In addition to mutual funds, these other accounts may include separate accounts, collective trusts, or offshore funds. Certain of these accounts may pay a performance fee, and portfolio managers may have an incentive to allocate investment to these accounts.

Schroders manages potential conflicts between funds or with other types of accounts through allocation policies and procedures, internal review processes, and oversight by client directors. Schroders has developed trade allocation and client order priority systems and controls to ensure that no one client, regardless of type, is intentionally favored at the expense of another. Allocation policies are designed to address potential conflicts in situations where two or more funds or accounts participate in investment decisions involving the same securities.

The structure of each portfolio manager's compensation may give rise to potential conflicts of interest. Each portfolio manager's base pay tends to increase with additional and more complex responsibilities that include increased assets under management, which indirectly links compensation to sales.

Schroders has adopted certain compliance procedures that are designed to address these, and other, types of conflicts. However, there is no guarantee that such procedures will detect each and every situation in which a conflict arises.

3. Description of Compensation

Schroders' fund managers are paid a combination of base salary and annual bonus, as well as the standard retirement, health, and welfare benefits available to all of its employees. Certain fund managers also participate in a long-term incentive program. Mr. Webber and Mr. Gautrey receive compensation based on the factors discussed in this section.

Base salary is determined by reference to the level of responsibility inherent in the role and the experience of the incumbent, and is benchmarked annually against market data to ensure that Schroders is paying competitively. Schroders reviews base salaries annually, targeting increases at employees whose roles have increased in scope materially during the year and those whose salary is behind market rates. At more senior levels, base salaries tend to be adjusted less frequently as the emphasis is increasingly on the discretionary bonus.

Bonuses for fund managers may be composed of an agreed contractual floor, a revenue component, and/or a discretionary component. Any discretionary bonus is determined by a number of factors. At a macro level the total amount available to spend is a function of the compensation to revenue ratio achieved by the firm globally. Schroders then assesses the performance of the division and of the team to determine the share of the aggregate bonus pool that is spent in each area. This focus on "team" maintains consistency and minimizes internal competition that may be detrimental to the interests of clients. For individual fund managers, Schroders assesses the performance of its funds against the relevant benchmarks (which may be internally- and/or externally-based and are considered over a range of performance periods), the level of funds under management, and the level of performance fees generated, if any. Schroders also reviews "softer" factors such as leadership, contribution to other parts of the business, and an assessment of the employee's behavior and the extent to which it is in line with its corporate values of excellence, integrity, teamwork, passion, and innovation.

For those employees receiving significant bonuses, a part may be deferred in the form of Schroders plc stock and fund-based awards of notional cash investments in a range of Schroders' funds. These deferrals vest over a period of three years and ensure that the interests of the employee are aligned both with those of the shareholders and with those of investors. Over recent years Schroders has increased the level of deferred awards, and as a consequence employees have increased alignment with clients and shareholders and an increasing incentive to remain with Schroders as their store of unvested awards grows over time.

4. Ownership of Securities

As of August 31, 2020, Mr. Webber and Mr. Gautrey did not own any shares of Vanguard International Growth Fund.

III. Vanguard FTSE Social Index Fund, Vanguard U.S. Sector Index Funds, Vanguard Extended Duration Treasury Index Fund, Vanguard Mega Cap Index Funds, Vanguard ESG U.S. Stock ETF and Vanguard ESG International Stock ETF, and Vanguard ESG U.S. Corporate Bond ETF

Vanguard, through its Equity Index Group, provides investment advisory services to Vanguard FTSE Social Index Fund, Vanguard U.S. Sector Index Funds, Vanguard Mega Cap Index Funds, Vanguard ESG U.S. Stock ETF, and Vanguard ESG International Stock ETF. Vanguard, through its Fixed Income Group, provides investment advisory services to Vanguard Extended Duration Treasury Index Fund and Vanguard ESG U.S. Corporate Bond ETF. The compensation and other expenses of Vanguard's advisory staff are allocated among the funds utilizing these services.

During the fiscal years ended August 31, 2018, 2019, and 2020, the Funds incurred the following approximate advisory expenses:

Vanguard Fund	2018	2019	2020
Vanguard Extended Duration Treasury Index Fund	\$ 55,000	\$ 79,000	\$ 89,000
Vanguard FTSE Social Index Fund	623,000	780,000	1,086,000
Vanguard Communication Services Index Fund	171,000	236,000	337,000
Vanguard Consumer Discretionary Index Fund	427,000	483,000	497,000
Vanguard Consumer Staples Index Fund	667,000	771,000	907,000
Vanguard Energy Index Fund	712,000	633,000	502,000
Vanguard Financials Index Fund	1,250,000	1,209,000	1,075,000
Vanguard Health Care Index Fund	1,252,000	1,523,000	1,688,000
Vanguard Industrials Index Fund	575,000	563,000	499,000
Vanguard Information Technology Index Fund	2,991,000	3,051,000	2,574,000
Vanguard Materials Index Fund	437,000	397,000	332,000
Vanguard Utilities Index Fund	517,000	647,000	826,000
Vanguard Mega Cap Index Fund	228,000	265,000	372,000
Vanguard Mega Cap Value Index Fund	307,000	356,000	416,000
Vanguard Mega Cap Growth Index Fund	546,000	614,000	918,000
Vanguard ESG U.S. Stock ETF	—	32,000	167,000
Vanguard ESG International Stock ETF	—	23,000	110,000
Vanguard ESG U.S. Corporate Bond ETF ¹	—	—	—

¹ Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Funds as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Joshua Barrickman	Registered investment companies ¹	22	\$ 978B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
William Coleman	Registered investment companies ²	54	\$ 162B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	1	\$ 8.6B	0	\$0
Gerard O'Reilly	Registered investment companies ³	18	\$ 1.6T	0	\$0
	Other pooled investment vehicles	1	\$403M	0	\$0
	Other accounts	0	\$ 0	0	\$0
Christine D. Franquin	Registered investment companies ⁴	11	\$ 632B	0	\$0
	Other pooled investment vehicles	1	\$11.1B	0	\$0
	Other accounts	1	\$ 6.6B	0	\$0
Scott E. Geiger	Registered investment companies ⁴	2	\$22.1B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Awais Khan	Registered investment companies ⁵	8	\$ 26B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	2	\$ 8.6B	0	\$0
Michael Johnson	Registered investment companies ⁶	19	\$ 283B	0	\$0
	Other pooled investment vehicles	2	\$ 7.2B	0	\$0
	Other accounts	1	\$ 1.9B	0	\$0
Michelle Louie	Registered investment companies ⁷	9	\$ 921B	0	\$0
	Other pooled investment vehicles	0	\$ 0	0	\$0
	Other accounts	0	\$ 0	0	\$0
Walter Nejman	Registered investment companies ⁸	54	\$ 2.1T	0	\$0
	Other pooled investment vehicles	2	\$ 2.3B	0	\$0
	Other accounts	0	\$ 0	0	\$0

1 Includes Vanguard Extended Duration Treasury Index Fund which held assets of \$3.4 billion as of August 31, 2020.

2 Includes Vanguard FTSE Social Index Fund, ESG U.S. Stock ETF, Energy Index Fund, Financials Index Fund, and Materials Index Fund which collectively held assets of \$24.6 billion as of August 31, 2020.

3 Includes Vanguard FTSE Social Index Fund, Mega Cap Index Fund, Mega Cap Growth Index Fund, and Mega Cap Value Index Fund which collectively held assets of \$25.9 billion as of August 31, 2020.

4 Includes Vanguard ESG International Stock ETF which held assets of \$1.2 billion as of August 31, 2020.

5 Includes Vanguard Communication Services Index Fund, Consumer Discretionary Index Fund, Consumer Staples Index Fund, Energy Index Fund, and Utilities Index Fund which collectively held assets of \$22.4 billion as of August 31, 2020.

6 Includes Vanguard Consumer Discretionary Index Fund, Consumer Staples Index Fund, Utilities Index Fund, and Information Technology Index Fund which collectively held assets of \$60 billion as of August 31, 2020.

7 Includes Vanguard Financials Index Fund, Health Care Index Fund, Industrials Index Fund, and Materials Index Fund which collectively held assets of \$62 billion as of August 31, 2020.

8 Includes Vanguard Health Care Index Fund, Industrials Index Fund, Information Technology Index Fund, and Communication Services Index Fund which collectively held assets of \$100 billion as of August 31, 2020.

2. Material Conflicts of Interest

At Vanguard, individual portfolio managers may manage multiple accounts for multiple clients. In addition to mutual funds, these accounts may include separate accounts, collective trusts, and offshore funds. Managing multiple funds or accounts may give rise to potential conflicts of interest including, for example, conflicts among investment strategies and conflicts in the allocation of investment opportunities. Vanguard manages potential conflicts between funds or

accounts through allocation policies and procedures, internal review processes, and oversight by trustees and independent third parties. Vanguard has developed trade allocation procedures and controls to ensure that no one client, regardless of type, is intentionally favored at the expense of another. Allocation policies are designed to address potential conflicts in situations in which two or more funds or accounts participate in investment decisions involving the same securities.

3. Description of Compensation

All Vanguard portfolio managers are Vanguard employees. This section describes the compensation of the Vanguard employees who manage Vanguard mutual funds. As of August 31, 2020, a Vanguard portfolio manager's compensation generally consists of base salary, bonus, and payments under Vanguard's long-term incentive compensation program. In addition, portfolio managers are eligible for the standard retirement benefits and health and welfare benefits available to all Vanguard employees. Also, certain portfolio managers may be eligible for additional retirement benefits under several supplemental retirement plans that Vanguard adopted in the 1980s to restore dollar-for-dollar the benefits of management employees that had been cut back solely as a result of tax law changes. These plans are structured to provide the same retirement benefits as the standard retirement plans.

In the case of portfolio managers responsible for managing multiple Vanguard funds or accounts, the method used to determine their compensation is the same for all funds and investment accounts. A portfolio manager's base salary is determined by the manager's experience and performance in the role, taking into account the ongoing compensation benchmark analyses performed by Vanguard's Human Resources Department. A portfolio manager's base salary is generally a fixed amount that may change as a result of an annual review, upon assumption of new duties, or in response to a market adjustment of the position.

A portfolio manager's bonus is determined by a number of factors. One factor is gross, pre-tax performance of the fund relative to expectations for how the fund should have performed, given the fund's investment objective, policies, strategies, and limitations, and the market environment during the measurement period. This performance factor is not based on the amount of assets held in any individual fund's portfolio. For the FTSE Social Index Fund, the U.S. Sector Index Funds, the Extended Duration Treasury Index Fund, and the Mega Cap Index Funds, the performance factor depends on how closely the portfolio manager tracks the Fund's benchmark index over a one-year period. Additional factors include the portfolio manager's contributions to the investment management functions within the sub-asset class, contributions to the development of other investment professionals and supporting staff, and overall contributions to strategic planning and decisions for the investment group. The target bonus is expressed as a percentage of base salary. The actual bonus paid may be more or less than the target bonus, based on how well the manager satisfies the objectives stated above. The bonus is paid on an annual basis.

Under the long-term incentive compensation program, all full-time employees receive a payment from Vanguard's long-term incentive compensation plan based on their years of service, job level, and, if applicable, management responsibilities. Each year, Vanguard's independent directors determine the amount of the long-term incentive compensation award for that year based on the investment performance of the Vanguard funds relative to competitors and Vanguard's operating efficiencies in providing services to the Vanguard funds.

4. Ownership of Securities

As of August 31, 2020, Mr. Khan owned shares of Vanguard Energy Index Fund within the \$100,001–\$500,000 range. As of the same date, none of the other named portfolio managers owned any shares of the Funds they managed.

IV. Vanguard Global Wellington Fund and Vanguard Global Wellesley Income Fund

Wellington Management is a Delaware limited liability partnership with principal offices at 280 Congress Street, Boston, MA 02210. As of August 31, 2020, the firm is owned by 172 partners, all fully active in the business of the firm. Wellington Management is a professional investment counseling firm that provides investment services to investment companies, employee benefit plans, endowments, foundations, and other institutions. Wellington Management and its predecessor organizations have provided investment advisory services for over 80 years.

Vanguard Global Wellington Fund and Vanguard Global Wellesley Income Fund each pay Wellington Management a base fee. Each base fee, which is paid quarterly, is a percentage of average daily net assets managed by the advisor during the most recent fiscal quarter. Each base fee has breakpoints, which means that the percentage declines as

assets go up. Beginning December 1, 2018, the base fee will be subject to a performance adjustment, also paid quarterly, based on the cumulative total return of the Fund relative to that of the Global Wellington Composite Index (for Vanguard Global Wellington Fund) and the Global Wellesley Income Composite Index (for Vanguard Global Wellesley Income Fund) over the preceding 36-month period.

During the fiscal year ended August 31, 2020, Vanguard Global Wellington Fund incurred aggregate investment advisory fees of approximately \$1,740,000 (before a performance-based increase of \$127,000), and Vanguard Global Wellesley Income Fund incurred aggregate investment advisory fees of approximately \$563,000 (before a performance-based decrease of \$37,000).

1. Other Accounts Managed

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Nataliya Kofman	Registered investment companies ¹	4	\$ 14.2	1	\$ 1.3B
	Other pooled investment vehicles	4	\$282.5M	1	\$55.7M
	Other accounts	7	\$ 1.2B	0	\$ 0
Loren Moran	Registered investment companies ¹	10	\$ 84B	5	\$ 78B
	Other pooled investment vehicles	2	\$ 98.2M	1	\$29.8M
	Other accounts	0	\$ 0	0	\$ 0
Michael Stack	Registered investment companies ¹	10	\$ 84B	5	\$ 78B
	Other pooled investment vehicles	2	\$ 98.2M	1	\$29.8M
	Other accounts	60	\$ 31B	0	\$ 0

¹ Includes Vanguard Global Wellington Fund which held assets of \$1.3 billion as of August 31, 2020.

The following table provides information relating to the other accounts managed by the portfolio managers of the Fund as of the fiscal year ended August 31, 2020 (unless otherwise noted).

Portfolio Manager		No. of accounts	Total assets	No. of accounts with performance-based fees	Total assets in accounts with performance-based fees
Andre J. Desautels	Registered investment companies ¹	4	\$686.4M	1	\$ 470M
	Other pooled investment vehicles	18	\$139.5M	2	\$28.9M
	Other accounts	39	\$ 2.3B	6	\$58.5M
Loren Moran	Registered investment companies ¹	10	\$ 83B	5	\$ 77B
	Other pooled investment vehicles	2	\$ 98.2M	1	\$29.8M
	Other accounts	0	\$ 0	0	\$ 0
Michael Stack	Registered investment companies ¹	10	\$ 83B	5	\$ 77B
	Other pooled investment vehicles	2	\$ 98.2M	1	\$29.8M
	Other accounts	60	\$ 31B	0	\$ 0

¹ Includes Vanguard Global Wellesley Income Fund which held assets of \$470 million as of August 31, 2020.

2. Material Conflicts of Interest

Individual investment professionals at Wellington Management manage multiple accounts for multiple clients. These accounts may include mutual funds, separate accounts (assets managed on behalf of institutions, such as pension funds, insurance companies, foundations, or separately managed account programs sponsored by financial intermediaries), bank common trust accounts, and hedge funds. Each Wellington Management Portfolio's or Fund's managers listed in the prospectus who are primarily responsible for the day-to-day management of each Wellington Management Portfolio or Fund (Portfolio Manager) generally manages accounts in several different investment styles. These accounts may have investment objectives, strategies, time horizons, tax considerations, and risk profiles that differ from those of each Wellington Management Portfolio or Fund. A Portfolio Manager makes investment decisions for each account, including each Wellington Management Portfolio or Fund, based on the investment objectives,

policies, practices, benchmarks, cash flows, tax, and other relevant investment considerations applicable to that account. Consequently, the Portfolio Manager may purchase or sell securities, including initial public offerings (IPOs), for one account and not another account, and the performance of securities purchased for one account may vary from the performance of securities purchased for other accounts. Alternatively, these accounts may be managed in a similar fashion to each Wellington Management Portfolio or Fund and thus the accounts may have similar—and in some cases nearly identical—objectives, strategies, and/or holdings to those of each Wellington Management Portfolio or Fund.

A Portfolio Manager or other investment professionals at Wellington Management may place transactions on behalf of other accounts that are directly or indirectly contrary to investment decisions made on behalf of each Wellington Management Portfolio or Fund, or make investment decisions that are similar to those made for each Wellington Management Portfolio or Fund, both of which have the potential to adversely impact each Wellington Management Portfolio or Fund depending on market conditions. For example, an investment professional may purchase a security in one account while appropriately selling that same security in another account. Similarly, the Portfolio Manager may purchase the same security for the Wellington Management Portfolio or Fund and one or more other accounts at or about the same time. In those instances, the other accounts will have access to their respective holdings prior to the public disclosure of each Wellington Management Portfolio's or Fund's holdings. In addition, some of these accounts have fee structures, including performance fees, which are or have the potential to be higher, in some cases significantly higher, than the fees Wellington Management receives for managing each Wellington Management Portfolio or Fund. Ms. Kofman, Ms. Moran, Mr. Desautels, and Mr. Stack also manage accounts that pay performance allocations to Wellington Management or its affiliates. Because incentive payments paid by Wellington Management to each Portfolio Manager are tied to revenues earned by Wellington Management and, where noted, to the performance achieved by the manager in each account, the incentives associated with any given account may be significantly higher or lower than those associated with other accounts managed by a given Portfolio Manager. Finally, the Portfolio Managers may hold shares or investments in the other pooled investment vehicles and/or other accounts identified above.

Wellington Management's goal is to meet its fiduciary obligation to treat all clients fairly and provide high-quality investment services to all of its clients. Wellington Management has adopted and implemented policies and procedures, including brokerage and trade allocation policies and procedures, which it believes address the conflicts associated with managing multiple accounts for multiple clients. In addition, Wellington Management monitors a variety of areas, including compliance with primary account guidelines, the allocation of IPOs, and compliance with the firm's Code of Ethics, and places additional investment restrictions on investment professionals who manage hedge funds and certain other accounts. Furthermore, senior investment and business personnel at Wellington Management periodically review the performance of Wellington Management's investment professionals. Although Wellington Management does not track the time an investment professional spends on a single account, Wellington Management does periodically assess whether an investment professional has adequate time and resources to effectively manage the investment professional's various client mandates.

3. Description of Compensation

Wellington Management receives a fee based on the assets under management of each Wellington Management Portfolio or Fund as set forth in the Investment Advisory Wellington Management and the Trust on behalf of each Fund. Wellington Management pays its investment professionals out of its total revenues, including the advisory fees earned with respect to each Wellington Management Portfolio or Fund. The following relates to the fiscal year ended August 31, 2020.

Wellington Management's compensation structure is designed to attract and retain high-caliber investment professionals necessary to deliver high-quality investment management services to its clients. Wellington Management's compensation of each Wellington Management Portfolio's or Fund's managers listed in the prospectus who are primarily responsible for the day-to-day management of each Wellington Management Portfolio or Fund includes a base salary and incentive components. The base salary for each Portfolio Manager who is a partner (a "Partner") of Wellington Management Group LLP, the ultimate holding company of Wellington Management, is generally a fixed amount that is determined by the managing partners of Wellington Management Group LLP. The base salary for the other Portfolio Manager is determined by the Portfolio Manager's experience and performance in her role as a Portfolio Manager. Base salaries for Wellington Management's employees are reviewed annually and may be adjusted based on the recommendation of a Portfolio Manager's manager, using guidelines established by Wellington Management's Compensation Committee, which has final oversight responsibility for base salaries of employees of the firm.

Each Portfolio Manager is eligible to receive an incentive payment based on the revenues earned by Wellington Management from the Wellington Management Portfolio and generally each other account managed by such Portfolio Manager. Each Portfolio Manager's incentive payment relating to the Wellington Management Portfolio is linked to the net pre-tax performance of the Wellington Management Portfolio compared to the FTSE (All World) Developed Net Tax US RIC (for the Global Wellington Fund) and the FTSE Developed High Yield Net Tax US RIC (for the Global Wellesley Income Fund) over one-, three-, and five-year periods, with an emphasis on five-year results. Wellington Management applies similar incentive compensation structures (although the benchmarks or peer groups, time periods, and rates may differ) to other accounts managed by the Portfolio Managers, including accounts with performance fees. The incentive paid to the other Portfolio Managers, which has no performance-related component, is based on the revenues earned by Wellington Management.

Portfolio-based incentives across all accounts managed by an investment professional can, and typically do, represent a significant portion of an investment professional's overall compensation; incentive compensation varies significantly by individual and can vary significantly from year to year. The Portfolio Managers may also be eligible for bonus payments based on their overall contribution to Wellington Management's business operations. Senior management at Wellington Management may reward individuals as it deems appropriate based on other factors. Each Partner is eligible to participate in a Partner-funded tax-qualified retirement plan, the contributions to which are made pursuant to an actuarial formula. Ms. Moran and Messrs. Desautels and Stack are Partners.

4. Ownership of Securities

As of August 31, 2020, the named portfolio managers for Vanguard Global Wellington Fund owned shares of the Fund in the following amounts: Ms. Kofman, \$100,001–\$500,000; Ms. Moran, \$100,001–\$500,000; and Mr. Stack, \$500,001–\$1,000,000. As of August 31, 2020, the named portfolio managers for Vanguard Global Wellesley Income Fund owned shares of the Fund in the following amounts: Ms. Moran, \$100,001–\$500,000; Mr. Stack, \$500,001–\$1,000,000; and Messrs Desautels, \$500,001–\$1,000,000.

Duration and Termination of Investment Advisory Agreements

The Funds' current investment advisory agreements with the unaffiliated advisors are renewable for successive one-year periods, only if (1) each renewal is specifically approved by a vote of the Fund's board of trustees, including the affirmative votes of a majority of the trustees who are not parties to the agreement or "interested persons" (as defined in the 1940 Act) of any such party, cast in person at a meeting called for the purpose of considering such approval, or (2) each renewal is specifically approved by a vote of a majority of the Fund's outstanding voting securities. An agreement is automatically terminated if assigned and may be terminated without penalty at any time either (1) by vote of the board of trustees of the Fund upon thirty (30) days' written notice to the advisor, (2) by a vote of a majority of the Fund's outstanding voting securities upon 30 days' written notice to the advisor, or (3) by the advisor upon ninety (90) days' written notice to the Fund.

The initial investment advisory agreements with Wellington Management (for Vanguard Global Wellington Fund and Vanguard Global Wellesley Income Fund) are binding for a two-year period. At the end of that time, the agreements will become renewable for successive one-year periods, subject to the above conditions.

Vanguard provides investment advisory services to Vanguard FTSE Social Index Fund, Vanguard Extended Duration Treasury Index Fund, Vanguard U.S. Sector Index Funds, Vanguard Mega Cap Index Funds, Vanguard ESG U.S. Stock ETF, Vanguard ESG International Stock ETF, and Vanguard ESG U.S. Corporate Bond ETF pursuant to the terms of the Fifth Amended and Restated Funds' Service Agreement. This agreement will continue in full force and effect until terminated or amended by mutual agreement of the Vanguard funds and Vanguard.

Securities Lending

The following table describes the securities lending activities of each Fund (other than Vanguard Extended Duration Treasury Index Fund and Vanguard ESG U.S. Corporate Bond ETF) during the fiscal year ended August 31, 2020. Pursuant to Vanguard's securities lending policy, Vanguard's fixed income and money market funds are not permitted to, and do not, lend their investment securities.

Vanguard Fund**Securities Lending Activities****Vanguard Communication Services Index Fund**

<i>Gross income from securities lending activities</i>	\$1,058,120
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$934
Administrative fees not included in revenue split	\$9,527
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$96,730
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$107,191
<i>Net income from securities lending activities</i>	\$950,929

Vanguard Consumer Discretionary Index Fund

<i>Gross income from securities lending activities</i>	\$1,244,272
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$1,611
Administrative fees not included in revenue split	\$11,100
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$170,768
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$183,479
<i>Net income from securities lending activities</i>	\$1,060,793

Vanguard Consumer Staples Index Fund

<i>Gross income from securities lending activities</i>	\$702,380
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$665
Administrative fees not included in revenue split	\$7,869
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$18,078
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$26,612
<i>Net income from securities lending activities</i>	\$675,768

Vanguard Energy Index Fund

<i>Gross income from securities lending activities</i>	\$2,039,233
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$1,339
Administrative fees not included in revenue split	\$20,803
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$124,791
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$146,933
<i>Net income from securities lending activities</i>	\$1,892,300

Vanguard Fund**Securities Lending Activities****Vanguard ESG International Stock ETF**

<i>Gross income from securities lending activities</i>	\$102,707
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$208
Administrative fees not included in revenue split	\$995
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$11,054
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$12,257
<i>Net income from securities lending activities</i>	\$90,450

Vanguard ESG U.S. Stock ETF

<i>Gross income from securities lending activities</i>	\$35,265
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$31
Administrative fees not included in revenue split	\$345
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$2,488
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$2,864
<i>Net income from securities lending activities</i>	\$32,401

Vanguard Financials Index Fund

<i>Gross income from securities lending activities</i>	\$236,841
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$337
Administrative fees not included in revenue split	\$2,246
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$19,016
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$21,599
<i>Net income from securities lending activities</i>	\$215,242

Vanguard FTSE Social Index Fund

<i>Gross income from securities lending activities</i>	\$170,170
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$366
Administrative fees not included in revenue split	\$899
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$81,383
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$82,648
<i>Net income from securities lending activities</i>	\$87,522

Vanguard Fund**Securities Lending Activities****Vanguard Global Wellesley Income Fund**

<i>Gross income from securities lending activities</i>	\$49,946
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$125
Administrative fees not included in revenue split	\$324
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$20,389
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$20,838
<i>Net income from securities lending activities</i>	\$29,108

Vanguard Global Wellington Fund

<i>Gross income from securities lending activities</i>	\$52,041
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$114
Administrative fees not included in revenue split	\$307
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$19,261
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$19,682
<i>Net income from securities lending activities</i>	\$32,359

Vanguard Health Care Index Fund

<i>Gross income from securities lending activities</i>	\$3,644,374
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$2,398
Administrative fees not included in revenue split	\$35,736
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$257,101
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$295,235
<i>Net income from securities lending activities</i>	\$3,349,139

Vanguard Industrials Index Fund

<i>Gross income from securities lending activities</i>	\$268,972
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$255
Administrative fees not included in revenue split	\$2,604
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$11,732
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$14,591
<i>Net income from securities lending activities</i>	\$254,381

Vanguard Fund**Securities Lending Activities****Vanguard Information Technology Index Fund**

<i>Gross income from securities lending activities</i>	\$841,698
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$1,310
Administrative fees not included in revenue split	\$7,806
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$130,449
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$139,565
<i>Net income from securities lending activities</i>	\$702,133

Vanguard International Growth Fund

<i>Gross income from securities lending activities</i>	\$22,886,884
Fees paid to securities lending agent from a revenue split	\$316,508
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$30,684
Administrative fees not included in revenue split	\$165,618
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$4,286,515
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$4,799,325
<i>Net income from securities lending activities</i>	\$18,087,559

Vanguard Materials Index Fund

<i>Gross income from securities lending activities</i>	\$238,277
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$528
Administrative fees not included in revenue split	\$2,144
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$20,660
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$23,332
<i>Net income from securities lending activities</i>	\$214,945

Vanguard Mega Cap Growth Index Fund

<i>Gross income from securities lending activities</i>	\$117,332
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$246
Administrative fees not included in revenue split	\$679
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$49,765
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$50,690
<i>Net income from securities lending activities</i>	\$66,642

Vanguard Fund**Securities Lending Activities****Vanguard Mega Cap Index Fund**

<i>Gross income from securities lending activities</i>	\$50,484
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$77
Administrative fees not included in revenue split	\$357
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$13,262
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$13,696
<i>Net income from securities lending activities</i>	\$36,788

Vanguard Mega Cap Value Index Fund

<i>Gross income from securities lending activities</i>	\$44,579
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$17
Administrative fees not included in revenue split	\$414
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$1,476
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$1,907
<i>Net income from securities lending activities</i>	\$42,672

Vanguard U.S. Growth Fund

<i>Gross income from securities lending activities</i>	\$7,017,704
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$15,668
Administrative fees not included in revenue split	\$53,632
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$1,992,187
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$2,061,487
<i>Net income from securities lending activities</i>	\$4,956,217

Vanguard Utilities Index Fund

<i>Gross income from securities lending activities</i>	\$7,263
Fees paid to securities lending agent from a revenue split	\$0
Fees paid for any cash collateral management service (including fees deducted from a pooled cash collateral reinvestment vehicle) that are not included in the revenue split	\$20
Administrative fees not included in revenue split	\$48
Indemnification fee not included in revenue split	\$0
Rebate (paid to borrower)	\$2,557
Other fees not included in revenue split (specify)	\$0
Aggregate fees/compensation for securities lending activities	\$2,625
<i>Net income from securities lending activities</i>	\$4,638

The services provided by Brown Brothers Harriman & Co. and Vanguard, each acting separately as securities lending agents for certain Vanguard funds, include coordinating the selection of securities to be loaned to approved borrowers; negotiating the terms of the loan; monitoring the value of the securities loaned and corresponding collateral, marking to market daily; coordinating the investment of cash collateral in the funds' approved cash collateral reinvestment vehicle; monitoring dividends and coordinating material proxy votes relating to loaned securities; and transferring, recalling, and arranging the return of loaned securities to the funds upon termination of the loan.

PORTFOLIO TRANSACTIONS

The advisor decides which securities to buy and sell on behalf of a Fund and then selects the brokers or dealers that will execute the trades on an agency basis or the dealers with whom the trades will be effected on a principal basis. For each trade, the advisor must select a broker-dealer that it believes will provide “best execution.” Best execution does not necessarily mean paying the lowest spread or commission rate available. In seeking best execution, the SEC has said that an advisor should consider the full range of a broker-dealer’s services. The factors considered by the advisor in seeking best execution include, but are not limited to, the broker-dealer’s execution capability, clearance and settlement services, commission rate, trading expertise, willingness and ability to commit capital, ability to provide anonymity, financial responsibility, reputation and integrity, responsiveness, access to underwritten offerings and secondary markets, and access to company management, as well as the value of any research provided by the broker-dealer. In assessing which broker-dealer can provide best execution for a particular trade, the advisor also may consider the timing and size of the order and available liquidity and current market conditions. Subject to applicable legal requirements, the advisor may select a broker based partly on brokerage or research services provided to the advisor and its clients, including the Funds. The advisor may cause a Fund to pay a higher commission than other brokers would charge if the advisor determines in good faith that the amount of the commission is reasonable in relation to the value of services provided. The advisor also may receive brokerage or research services from broker-dealers that are provided at no charge in recognition of the volume of trades directed to the broker. To the extent research services or products may be a factor in selecting brokers, services and products may include written research reports analyzing performance or securities, discussions with research analysts, meetings with corporate executives to obtain oral reports on company performance, market data, and other products and services that will assist the advisor in its investment decision-making process. The research services provided by brokers through which a Fund affects securities transactions may be used by the advisor in servicing all of its accounts, and some of the services may not be used by the advisor in connection with the Fund.

The types of bonds in which the Extended Duration Treasury Index Fund invests are generally purchased and sold through principal transactions, meaning that the Fund normally purchases bonds directly from the issuer or a primary market-maker acting as principal for the bonds on a net basis. Explicit brokerage commissions are not paid on these transactions, although purchases of new issues from underwriters of bonds typically include a commission or concession paid by the issuer to the underwriter, and purchases from dealers serving as market-makers typically include a dealer’s markup (i.e., a spread between the bid and the asked prices).

As previously explained, the types of bonds that the Extended Duration Treasury Index Fund purchases do not normally involve the payment of explicit brokerage commissions. If any such brokerage commissions are paid, however, the advisor will evaluate their reasonableness by considering: (1) the historical commission rates; (2) the rates that other institutional investors are paying, based upon publicly available information; (3) the rates quoted by brokers and dealers; (4) the size of a particular transaction, in terms of the number of shares, the dollar amount, and the number of clients involved; (5) the complexity of a particular transaction in terms of both execution and settlement; (6) the level and type of business done with a particular firm over a period of time; and (7) the extent to which the broker or dealer has capital at risk in the transaction.

During the fiscal years ended August 31, 2018, 2019, and 2020, the Funds paid the following approximate amounts in brokerage commissions. Brokerage commissions paid by a fund may be substantially different from year to year for multiple reasons, such as cash flows or changes to the stocks that make up a fund’s target index.

Vanguard Fund	2018	2019	2020
Vanguard Communication Services Index Fund ¹	\$ 506,000	\$ 177,000	\$ 52,000
Vanguard Consumer Discretionary Index Fund	88,000	51,000	45,000
Vanguard Consumer Staples Index Fund	33,000	45,000	27,000
Vanguard Energy Index Fund	44,000	91,000	153,000
Vanguard ESG International Stock ETF	—	61,000	69,000
Vanguard ESG U.S. Corporate Bond ETF ²	—	—	—
Vanguard ESG U.S. Stock ETF	—	11,000	6,000
Vanguard Extended Duration Treasury Index Fund	Less than 1,000	Less than 1,000	Less than 1,000
Vanguard Financials Index Fund	40,000	87,000	47,000
Vanguard FTSE Social Index Fund	52,000	97,000	154,000
Vanguard Global Wellesley Income Fund ³	100,000	339,000	43,000
Vanguard Global Wellington Fund	266,000	196,000	154,000

Vanguard Fund	2018	2019	2020
Vanguard Health Care Index Fund	40,000	117,000	120,000
Vanguard Industrials Index Fund	20,000	14,000	14,000
Vanguard Information Technology Index Fund ⁴	101,000	181,000	254,000
Vanguard International Growth Fund	7,927,000	4,944,000	7,183,000
Vanguard Materials Index Fund	14,000	55,000	17,000
Vanguard Mega Cap Growth Index Fund	9,000	27,000	18,000
Vanguard Mega Cap Index Fund	3,000	6,000	6,000
Vanguard Mega Cap Value Index Fund	11,000	18,000	16,000
Vanguard U.S. Growth Fund ⁵	1,915,000	2,922,000	5,235,000
Vanguard Utilities Index Fund	12,000	52,000	36,000

1 Increased portfolio transactions during the Fund's transition to a new index in 2018 contributed to an increase in brokerage commissions for the fiscal year ended August 31, 2018.

2 Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

3 Higher brokerage commissions paid during the fiscal year ended August 31, 2019, were due to increased trading activity in the Fund's portfolio as a result of a change in the Fund's advisory structure.

4 The increase in brokerage commissions for the fiscal year ended August 31, 2019, was due to changes to the Fund's benchmark.

5 The increase in brokerage commissions for the fiscal year ended August 31, 2019, was attributable to an increase in Fund assets due to the reorganization of Vanguard Morgan Growth Fund into Vanguard U.S. Growth Fund as well as a change in the Fund's advisory structure.

Some securities that are considered for investment by a Fund may also be appropriate for other Vanguard funds or for other clients served by the advisors. If such securities are compatible with the investment policies of a Fund and one or more of an advisor's other clients, and are considered for purchase or sale at or about the same time, then transactions in such securities may be aggregated by the advisor, and the purchased securities or sale proceeds may be allocated among the participating Vanguard funds and the other participating clients of the advisor in a manner deemed equitable by the advisor. Although there may be no specified formula for allocating such transactions, the allocation methods used, and the results of such allocations, will be subject to periodic review by the Funds' board of trustees.

The ability of Vanguard and external advisors to purchase or dispose of certain fund investments, or to exercise rights on behalf of a Fund, may be restricted or impaired because of limitations imposed by law, regulation, or by certain regulators or issuers. As a result, Vanguard and external advisors on behalf of a Fund may be required to limit purchases, sell existing investments, or otherwise limit the exercise of shareholder rights by the Fund, including voting rights. These ownership restrictions and limitations can impact a Fund's performance. For index funds, this impact generally takes the form of tracking error, which can arise when a fund is not able to acquire its desired amount of a security. For actively managed funds, this impact can result, for example, in missed investment opportunities otherwise desired by a fund's investment advisor. If a Fund is required to limit its investment in a particular issuer, then the Fund may seek to obtain regulatory or corporate consents or ownership waivers. Other options a Fund may pursue include seeking to obtain economic exposure to that issuer through alternative means, such as through a derivative, which may be more costly than owning securities of the issuer directly, or through investment in a wholly-owned subsidiary.

As of August 31, 2020, each Fund held securities of its "regular brokers or dealers," as that term is defined in Rule 10b-1 of the 1940 Act, as follows:

Vanguard Fund	Regular Broker or Dealer (or Parent)	Aggregate Holdings
Vanguard Communication Services Index Fund	—	—
Vanguard Consumer Discretionary Index Fund	—	—
Vanguard Consumer Staples Index Fund	—	—
Vanguard Energy Index Fund	—	—
Vanguard ESG International Stock ETF	BANCO SANTANDER BRASIL	\$ 2,580,000
	BARCLAYS CAPITAL-FIXED INCOME	1,554,000
	CIBC (CANADIAN IMPERIAL BANK)	2,089,000
	CREDIT SUISSE SECURITIES	1,598,000
	Nomura Securities	1,152,000
Vanguard ESG U.S. Corporate Bond ETF ¹	—	—
Vanguard ESG U.S. Stock ETF	CITIGROUP GLOBAL MARKETS, INC.	7,211,000
	GOLDMAN, SACHS & CO.	4,594,000
	JP MORGAN SINGLE	20,543,000
	MORGAN STANLEY	3,905,000

Vanguard Fund	Regular Broker or Dealer (or Parent)	Aggregate Holdings
Vanguard Financials Index Fund	Goldman, Sachs & Co.	131,013,000
	J.P. Morgan Securities Inc.	597,543,000
	Jefferies & Company, Inc.	7,816,000
	Merrill Lynch, Pierce, Fenner & Smith Inc.	393,386,000
	Morgan Stanley	120,883,000
	National Financial Services LLC	17,888,000
	Wells Fargo Securities, LLC	184,126,000
Vanguard FTSE Social Index Fund	Goldman, Sachs & Co.	24,151,000
	J.P. Morgan Securities Inc.	108,207,000
	Jefferies & Company, Inc.	—
	Merrill Lynch, Pierce, Fenner & Smith Inc.	71,025,000
	Morgan Stanley	20,537,000
	National Financial Services LLC	3,234,000
	Wells Fargo Securities, LLC	—
Vanguard Global Wellesley Income Fund	CITIGROUP GLOBAL MARKETS	1,749,000
	CREDIT SUISSE SECURITIES LTD	1,166,000
	MORGAN STANLEY	2,544,000
	UBS SECURITIES LTD	3,786,000
	WELLS FARGO	6,323,000
Vanguard Global Wellington Fund	CITIGROUP GLOBAL MARKETS	2,347,000
	CREDIT SUISSE SECURITIES	1,352,000
	HSBC BANK PLC	2,366,000
	J.P. MORGAN SECURITIES LIMITED	15,897,000
	WELLS FARGO	6,323,000
Vanguard Health Care Index Fund	—	—
Vanguard Industrials Index Fund	—	—
Vanguard Information Technology Index Fund	—	—
Vanguard International Growth Fund	—	—
Vanguard Materials Index Fund	—	—
Vanguard Mega Cap Growth Index Fund	—	—
Vanguard Mega Cap Index Fund	Goldman, Sachs & Co.	8,878,000
	J.P. Morgan Securities Inc.	36,539,000
	Merrill Lynch, Pierce, Fenner & Smith Inc.	25,326,000
	Morgan Stanley	7,785,000
	Wells Fargo Securities, LLC	11,218,000
	WELLS FARGO	6,323,000
Vanguard Mega Cap Value Index Fund	Goldman, Sachs & Co.	21,071,000
	J.P. Morgan Securities Inc.	86,733,000
	Merrill Lynch, Pierce, Fenner & Smith Inc.	60,105,000
	Morgan Stanley	18,474,000
	Wells Fargo Securities, LLC	26,626,000
	WELLS FARGO	6,323,000
Vanguard U.S. Growth Fund	Merrill Lynch, Pierce, Fenner & Smith Inc.	42,800,000
Vanguard Utilities Index Fund	—	—

¹ Vanguard ESG U.S. Corporate Bond ETF commenced operations on September 22, 2020.

PROXY VOTING

I. Proxy Voting Policies

Each Vanguard fund advised by Vanguard retains the authority to vote proxies received with respect to the shares of equity securities held in a portfolio advised by Vanguard. The Board of Trustees of the Vanguard-advised funds (the Board) has adopted proxy voting procedures and guidelines to govern proxy voting for each portfolio retaining proxy voting authority, which are summarized in *Appendix A*. The Board of each Vanguard fund advised by a manager not affiliated with Vanguard has delegated the authority to vote proxies related to the portfolio securities held by each fund to its respective advisor(s). Each advisor will vote such proxies in accordance with its own proxy voting policies and procedures, which are summarized in *Appendix B*.

Vanguard has entered into agreements with various state, federal, and non-U.S. regulators and with certain issuers that limit the amount of shares that the funds may vote at their discretion for particular securities. For these securities, the funds are able to vote a limited portion of the shares at their discretion. Any additional shares generally are voted in the same proportion as votes cast by the issuer's entire shareholder base (i.e., mirror voted), or the fund is not permitted to vote such shares. Further, the Board has adopted policies that will result in certain funds mirror voting a higher proportion of the shares they own in a regulated issuer in order to permit certain other funds (generally advised by managers not affiliated with Vanguard) to mirror vote none, or a lower proportion of, their shares in such regulated issuer.

II. Securities Lending

There may be occasions when Vanguard needs to restrict lending of and/or recall securities that are out on loan in order to vote the full position at a shareholder meeting. For the funds managed by Vanguard, Vanguard has processes to monitor securities on loan and to evaluate any circumstances that may require it to restrict and/or attempt to recall the security based on the criteria set forth in *Appendix A*. Additionally, Vanguard has processes in place for advisors unaffiliated with Vanguard who have been delegated authority to vote proxies on behalf of certain Vanguard funds to inform Vanguard of an upcoming vote the advisor deems to be material in accordance with such advisor's proxy voting policies and procedures in order for Vanguard to instruct the recall of the security.

To obtain a free copy of a report that details how the funds voted the proxies relating to the portfolio securities held by the funds for the prior 12-month period ended June 30, log on to vanguard.com or visit the SEC's website at www.sec.gov.

INFORMATION ABOUT THE ETF SHARE CLASS

Each Fund (collectively, the ETF Funds) (other than Vanguard U.S. Growth, Vanguard International Growth, Vanguard Global Wellington, Vanguard Global Wellesley Income, and Vanguard FTSE Social Index Funds) offers and issues an exchange-traded class of shares called ETF Shares. Each Fund issues and redeems ETF Shares in large blocks, known as "Creation Units."

To purchase or redeem a Creation Unit, you must be an Authorized Participant or you must transact through a broker that is an Authorized Participant. An Authorized Participant is a participant in the Depository Trust Company (DTC) that has executed a Participant Agreement with Vanguard Marketing Corporation, the ETF Funds' Distributor (the Distributor). For a current list of Authorized Participants, contact the Distributor.

Investors that are not Authorized Participants must hold ETF Shares in a brokerage account. As with any stock traded on an exchange through a broker, purchases and sales of ETF Shares will be subject to usual and customary brokerage commissions.

Each ETF Fund issues Creation Units in kind in exchange for a basket of securities that are part of—or soon to be part of—its target index (Deposit Securities). Each ETF Fund also redeems Creation Units in kind; an investor who tenders a Creation Unit will receive, as redemption proceeds, a basket of securities that are part of the Fund's portfolio holdings (Redemption Securities). As part of any creation or redemption transaction, the investor will either pay or receive some cash in addition to the securities, as described more fully on the following pages. Each ETF Fund reserves the right to issue Creation Units for cash, rather than in kind.

Exchange Listing and Trading

The ETF Shares have been approved for listing on a national securities exchange and will trade on the exchange at market prices that may differ from net asset value (NAV). There can be no assurance that, in the future, ETF Shares will continue to meet all of the exchange's listing requirements. The exchange will institute procedures to delist the Fund's ETF Shares if the Fund's ETF Shares do not continuously comply with the exchange's listing rules. The exchange will also delist the Fund's ETF Shares upon termination of the ETF Share class.

The exchange disseminates, through the facilities of the Consolidated Tape Association, an updated "indicative optimized portfolio value" (IOPV) for each ETF Fund as calculated by an information provider. The ETF Funds are not involved with or responsible for the calculation or dissemination of the IOPVs, and they make no warranty as to the

accuracy of the IOPVs. An IOPV for the Fund's ETF Shares is disseminated every 15 seconds during regular exchange trading hours. An IOPV has a securities value component and a cash component. The IOPV is designed as an estimate of an ETF Fund's NAV at a particular point in time, but it is only an estimate and should not be viewed as the actual NAV, which is calculated once each day.

Conversions and Exchanges

Owners of conventional shares (i.e., not exchange-traded shares) issued by an ETF Fund may convert those shares to ETF Shares of equivalent value of the same Fund. Please note that investors who own conventional shares through a 401(k) plan or other employer-sponsored retirement or benefit plan generally may not convert those shares to ETF Shares and should check with their plan sponsor or recordkeeper. ETF Shares, whether acquired through a conversion or purchased on the secondary market, cannot be converted to conventional shares by a shareholder. Also, ETF Shares of one fund cannot be exchanged for ETF Shares of another fund.

Investors that are not Authorized Participants must hold ETF Shares in a brokerage account. Thus, before converting conventional shares to ETF Shares, an investor must have an existing, or open a new, brokerage account. This account may be with Vanguard Brokerage Services or with any other brokerage firm. To initiate a conversion of conventional shares to ETF Shares, an investor must contact his or her broker.

Vanguard Brokerage Services does not impose a fee on conversions from Vanguard conventional shares to Vanguard ETF Shares. However, other brokerage firms may charge a fee to process a conversion. Vanguard reserves the right, in the future, to impose a transaction fee on conversions or to limit or terminate the conversion privilege.

Converting conventional shares to ETF Shares is generally accomplished as follows. First, after the broker notifies Vanguard of an investor's request to convert, Vanguard will transfer conventional shares from the investor's account with Vanguard to the broker's omnibus account with Vanguard (an account maintained by the broker on behalf of all its customers who hold conventional Vanguard fund shares through the broker). After the transfer, Vanguard's records will reflect the broker, not the investor, as the owner of the shares. Next, the broker will instruct Vanguard to convert the appropriate number or dollar amount of conventional shares in its omnibus account to ETF Shares of equivalent value, based on the respective NAVs of the two share classes. The ETF Fund's transfer agent will reflect ownership of all ETF Shares in the name of the DTC. The DTC will keep track of which ETF Shares belong to the broker, and the broker, in turn, will keep track of which ETF Shares belong to its customers.

Because the DTC is unable to handle fractional shares, only whole shares can be converted. For example, if the investor owned 300.25 conventional shares, and this was equivalent in value to 90.75 ETF Shares, the DTC account would receive 90 ETF Shares. Conventional shares with a value equal to 0.75 ETF Shares (in this example, that would be 2.481 conventional shares) would remain in the broker's omnibus account with Vanguard. The broker then could either (1) take certain internal actions necessary to credit the investor's account with 0.75 ETF Shares or (2) redeem the 2.481 conventional shares for cash at NAV and deliver that cash to the investor's account. If the broker chose to redeem the conventional shares, the investor would realize a gain or loss on the redemption that must be reported on his or her tax return (unless the shares are held in an IRA or other tax-deferred account). An investor should consult his or her broker for information on how the broker will handle the conversion process, including whether the broker will impose a fee to process a conversion.

The conversion process works differently for investors who opt to hold ETF Shares through an account at Vanguard Brokerage Services. Investors who convert their conventional shares to ETF Shares through Vanguard Brokerage Services will have *all* conventional shares for which they request conversion converted to the equivalent dollar value of ETF Shares. Because no fractional shares will have to be sold, the transaction will not be taxable.

Here are some important points to keep in mind when converting conventional shares of an ETF Fund to ETF Shares:

- The conversion process can take anywhere from several days to several weeks, depending on the broker. Vanguard generally will process conversion requests either on the day they are received or on the next business day. Vanguard imposes conversion blackout windows around the dates when an ETF Fund declares dividends. This is necessary to prevent a shareholder from collecting a dividend from both the conventional share class currently held and also from the ETF share class to which the shares will be converted.
- During the conversion process, an investor will remain fully invested in the Fund's conventional shares, and the investment will increase or decrease in value in tandem with the NAV of those shares.
- The conversion transaction is nontaxable except, if applicable, to the very limited extent previously described.

- During the conversion process, an investor will be able to liquidate all or part of an investment by instructing Vanguard or the broker (depending on whether the shares are held in the investor's account or the broker's omnibus account) to redeem the conventional shares. After the conversion process is complete, an investor will be able to liquidate all or part of an investment by instructing the broker to sell the ETF Shares.

Book Entry Only System

ETF Shares issued by the ETF Funds are registered in the name of the DTC or its nominee, Cede & Co., and are deposited with, or on behalf of, the DTC. The DTC is a limited-purpose trust company that was created to hold securities of its participants (DTC Participants) and to facilitate the clearance and settlement of transactions among them through electronic book-entry changes in their accounts, thereby eliminating the need for physical movement of securities certificates. DTC Participants include securities brokers and dealers, banks, trust companies, clearing corporations, and certain other organizations. The DTC is a subsidiary of the Depository Trust and Clearing Corporation (DTCC), which is owned by certain participants of the DTCC's subsidiaries, including the DTC. Access to the DTC system is also available to others such as banks, brokers, dealers, and trust companies that clear through or maintain a custodial relationship with a DTC Participant, either directly or indirectly (Indirect Participants).

Beneficial ownership of ETF Shares is limited to DTC Participants, Indirect Participants, and persons holding interests through DTC Participants and Indirect Participants. Ownership of beneficial interests in ETF Shares (owners of such beneficial interests are referred to herein as Beneficial Owners) is shown on, and the transfer of ownership is effected only through, records maintained by the DTC (with respect to DTC Participants) and on the records of DTC Participants (with respect to Indirect Participants and Beneficial Owners that are not DTC Participants). Beneficial Owners will receive from, or through, the DTC Participant a written confirmation relating to their purchase of ETF Shares. The laws of some jurisdictions may require that certain purchasers of securities take physical delivery of such securities. Such laws may impair the ability of certain investors to acquire beneficial interests in ETF Shares.

Each ETF Fund recognizes the DTC or its nominee as the record owner of all ETF Shares for all purposes. Beneficial Owners of ETF Shares are not entitled to have ETF Shares registered in their names and will not receive or be entitled to physical delivery of share certificates. Each Beneficial Owner must rely on the procedures of the DTC and any DTC Participant and/or Indirect Participant through which such Beneficial Owner holds its interests to exercise any rights of a holder of ETF Shares.

Conveyance of all notices, statements, and other communications to Beneficial Owners is effected as follows. The DTC will make available to each ETF Fund, upon request and for a fee, a listing of the ETF Shares of the Fund held by each DTC Participant. The ETF Fund shall obtain from each DTC Participant the number of Beneficial Owners holding ETF Shares, directly or indirectly, through the DTC Participant. The ETF Fund shall provide each DTC Participant with copies of such notice, statement, or other communication, in form, in number, and at such place as the DTC Participant may reasonably request, in order that these communications may be transmitted by the DTC Participant, directly or indirectly, to the Beneficial Owners. In addition, the ETF Fund shall pay to each DTC Participant a fair and reasonable amount as reimbursement for the expenses attendant to such transmittal, subject to applicable statutory and regulatory requirements.

Share distributions shall be made to the DTC or its nominee as the registered holder of all ETF Shares. The DTC or its nominee, upon receipt of any such distributions, shall immediately credit the DTC Participants' accounts with payments in amounts proportionate to their respective beneficial interests in ETF Shares of the appropriate Fund as shown on the records of the DTC or its nominee. Payments by DTC Participants to Indirect Participants and Beneficial Owners of ETF Shares held through such DTC Participants will be governed by standing instructions and customary practices, as is now the case with securities held for the accounts of customers in bearer form or registered in a "street name," and will be the responsibility of such DTC Participants.

The ETF Funds have no responsibility or liability for any aspects of the records relating to or notices to Beneficial Owners; for payments made on account of beneficial ownership interests in such ETF Shares; for maintenance, supervision, or review of any records relating to such beneficial ownership interests; or for any other aspect of the relationship between the DTC and DTC Participants or the relationship between such DTC Participants and the Indirect Participants and Beneficial Owners owning through such DTC Participants.

The DTC may determine to discontinue providing its service with respect to ETF Shares at any time by giving reasonable notice to the ETF Funds and discharging its responsibilities with respect thereto under applicable law. Under such circumstances, the ETF Funds shall take action either to find a replacement for the DTC to perform its functions at a comparable cost or, if such replacement is unavailable, to issue and deliver printed certificates representing ownership of ETF Shares, unless the ETF Funds make other arrangements with respect thereto satisfactory to the exchange.

Purchase and Issuance of ETF Shares in Creation Units

Except for conversions to ETF Shares from conventional shares, the ETF Funds issue and sell ETF Shares only in Creation Units on a continuous basis through the Distributor, without a sales load, at their NAV next determined after receipt of an order in proper form on any business day. The ETF Funds do not issue fractional Creation Units.

A business day is any day on which the NYSE is open for business. As of the date of this Statement of Additional Information, the NYSE observes the following U.S. holidays: New Year's Day; Martin Luther King, Jr., Day; Presidents' Day (Washington's Birthday); Good Friday; Memorial Day (observed); Independence Day; Labor Day; Thanksgiving Day; and Christmas Day.

Fund Deposit. The consideration for purchase of a Creation Unit from an ETF Fund generally consists of an in-kind deposit of a designated portfolio of securities (Deposit Securities) and an amount of cash (Cash Component) consisting of a purchase balancing amount and a transaction fee (both described in the following paragraphs). Together, the Deposit Securities and the Cash Component constitute the fund deposit.

The purchase balancing amount is an amount equal to the difference between the NAV of a Creation Unit and the market value of the Deposit Securities (Deposit Amount). It ensures that the NAV of a fund deposit (not including the transaction fee) is identical to the NAV of the Creation Unit it is used to purchase. If the purchase balancing amount is a positive number (i.e., the NAV per Creation Unit exceeds the market value of the Deposit Securities), then that amount will be paid by the purchaser to an ETF Fund in cash. If the purchase balancing amount is a negative number (i.e., the NAV per Creation Unit is less than the market value of the Deposit Securities), then that amount will be paid by an ETF Fund to the purchaser in cash (except as offset by the transaction fee).

Vanguard, through the National Securities Clearing Corporation (NSCC), makes available after the close of each business day a list of the names and the number of shares of each Deposit Security to be included in the next business day's fund deposit for each ETF Fund (subject to possible amendment or correction). Each ETF Fund reserves the right to accept a nonconforming fund deposit.

The identity and number of shares of the Deposit Securities required for a fund deposit may change from one day to another to reflect rebalancing adjustments and corporate actions, to reflect interest payments on underlying bonds, or to respond to adjustments to the weighting or composition of the component securities of the relevant target index.

In addition, each ETF Fund reserves the right to permit or require the substitution of an amount of cash—referred to as “cash in lieu”—to be added to the Cash Component to replace any Deposit Security. This might occur, for example, if a Deposit Security is not available in sufficient quantity for delivery, is not eligible for transfer through the applicable clearance and settlement system, or is not eligible for trading by an Authorized Participant or the investor for which an Authorized Participant is acting. Trading costs incurred by the ETF Fund in connection with the purchase of Deposit Securities with cash-in-lieu amounts will be an expense of the ETF Fund. However, Vanguard may adjust the transaction fee to protect existing shareholders from this expense.

All questions as to the number of shares of each security in the Deposit Securities and the validity, form, eligibility, and acceptance for deposit of any securities to be delivered shall be determined by the appropriate ETF Fund, and the ETF Fund's determination shall be final and binding.

Procedures for Purchasing Creation Units. An Authorized Participant may place an order to purchase Creation Units from a stock ETF Fund either (1) through the Continuous Net Settlement (CNS) clearing processes of the NSCC as such processes have been enhanced to effect purchases of Creation Units, such processes being referred to herein as the Clearing Process, or (2) outside the Clearing Process. To purchase through the Clearing Process, an Authorized Participant must be a member of the NSCC that is eligible to use the CNS system. Purchases of Creation Units cleared through the Clearing Process will be subject to a lower transaction fee than those cleared outside the Clearing Process.

For all ETF Funds, to initiate a purchase order for a Creation Unit (either through the Clearing Process or outside the Clearing Process for stock ETF Funds), an Authorized Participant must submit an order in proper form to the Distributor

and such order must be received by the Distributor prior to the closing time of regular trading on the NYSE (Closing Time) (ordinarily 4 p.m., Eastern time) to receive that day's NAV. The date on which an order to purchase (or redeem) Creation Units is placed is referred to as the transmittal date. Authorized Participants must transmit orders using a transmission method acceptable to the Distributor pursuant to procedures set forth in the Participant Agreement.

Purchase orders effected outside the Clearing Process are likely to require transmittal by the Authorized Participant earlier on the transmittal date than orders effected using the Clearing Process. Those persons placing orders outside the Clearing Process should ascertain the deadlines applicable to the DTC and the Federal Reserve Bank wire system by contacting the operations department of the broker or depository institution effectuating such transfer of Deposit Securities and Cash Component.

Neither the Trust, the ETF Funds, the Distributor, nor any affiliated party will be liable to an investor who is unable to submit a purchase order by Closing Time, even if the problem is the responsibility of one of those parties (e.g., the Distributor's phone or email systems were not operating properly).

If you are not an Authorized Participant, you must place your purchase order in an acceptable form with an Authorized Participant. The Authorized Participant may request that you make certain representations or enter into agreements with respect to the order (e.g., to provide for payments of cash when required).

Placement of Purchase Orders for Vanguard U.S. Sector ETFs and Vanguard Mega Cap ETFs

Purchase Orders Using the Clearing Process

For purchase orders placed through the Clearing Process, the Participant Agreement authorizes the Distributor to transmit through the transfer agent or index receipt agent to the NSCC, on behalf of an Authorized Participant, such trade instructions as are necessary to effect the Authorized Participant's purchase order. Pursuant to such trade instructions to the NSCC, the Authorized Participant agrees to deliver the requisite Deposit Securities and the Cash Component to the appropriate ETF Fund, together with such additional information as may be required by the Distributor.

An order to purchase Creation Units through the Clearing Process is deemed received on the transmittal date if (1) such order is received by the ETF Fund's designated agent before Closing Time on such transmittal date and (2) all other procedures set forth in the Participant Agreement are properly followed. Such order will be effected based on the NAV of the ETF Fund next determined on that day. An order to purchase Creation Units through the Clearing Process made in proper form but received after Closing Time on the transmittal date will be deemed received on the next business day immediately following the transmittal date and will be effected at the NAV next determined on that day. The Deposit Securities and the Cash Component will be transferred by the second NSCC business day following the date on which the purchase request is deemed received.

Purchase Orders Outside the Clearing Process

An Authorized Participant that wishes to place an order to purchase Creation Units outside the Clearing Process must state that it is not using the Clearing Process and that the purchase instead will be effected through a transfer of securities and cash directly through the DTC. An order to purchase Creation Units outside the Clearing Process is deemed received by the ETF Fund's designated agent on the transmittal date if (1) such order is received by the Distributor before Closing Time on such transmittal date and (2) all other procedures set forth in the Participant Agreement are properly followed.

If a fund deposit is incomplete on the second business day after the trade date (the trade date, known as "T," is the date on which the trade actually takes place; two business days after the trade date is known as "T+2") because of the failed delivery of one or more of the Deposit Securities, an ETF Fund shall be entitled to cancel the purchase order. Alternatively, the ETF Fund may issue Creation Units in reliance on the Authorized Participant's undertaking to deliver the missing Deposit Securities at a later date. Such undertaking shall be secured by the delivery and maintenance of cash collateral in an amount determined by the ETF Fund in accordance with the terms of the Participant Agreement.

Placement of Purchase Orders for Vanguard Extended Duration Treasury ETF. An Authorized Participant must deliver the cash and government securities portion of a fund deposit through the Federal Reserve's Fedwire System and the corporate securities portion of a fund deposit through the DTC. If a fund deposit is incomplete on the second business day after the trade date (the trade date, known as "T," is the date on which the trade actually takes place; two business days after the trade date is known as "T+2") because of the failed delivery of one or more of the Deposit Securities, the ETF Fund shall be entitled to cancel the purchase order.

The ETF Fund may issue Creation Units in reliance on the Authorized Participant's undertaking to deliver the missing Deposit Securities at a later date. Such undertaking shall be secured by the delivery and maintenance of cash collateral in an amount determined by the Fund in accordance with the terms of the Participant Agreement.

Rejection of Purchase Orders. Each ETF Fund reserves the absolute right to reject a purchase order. By way of example, and not limitation, an ETF Fund will reject a purchase order if:

- The order is not in proper form.
- The Deposit Securities delivered are not the same (in name or amount) as the published basket.
- Acceptance of the Deposit Securities would have certain adverse tax consequences to the ETF Fund.
- Acceptance of the fund deposit would, in the opinion of counsel, be unlawful.
- Acceptance of the fund deposit would otherwise, at the discretion of the ETF Fund or Vanguard, have an adverse effect on the Fund or any of its shareholders.
- Circumstances outside the control of the ETF Fund, the Trust, the transfer agent, the custodian, the Distributor, and Vanguard make it for all practical purposes impossible to process the order. Examples include, but are not limited to, natural disasters, public service disruptions, or utility problems such as fires, floods, extreme weather conditions, and power outages resulting in telephone, telecopy, and computer failures; market conditions or activities causing trading halts; systems failures involving computer or other information systems affecting the aforementioned parties as well as the DTC, the NSCC, the Federal Reserve, or any other participant in the purchase process; and similar extraordinary events.

If the purchase order is rejected, the Distributor shall notify the Authorized Participant that submitted the order. The ETF Funds, the Trust, the transfer agent, the custodian, the Distributor, and Vanguard are under no duty, however, to give notification of any defects or irregularities in the delivery of a fund deposit, nor shall any of them incur any liability for the failure to give any such notification.

Transaction Fee on Purchases of Creation Units. Each ETF Fund may impose a transaction fee (payable to the Fund) to compensate the ETF Fund for costs associated with the issuance of Creation Units. The amount of the fee, which may be changed by each ETF Fund from time to time at its sole discretion, is made available daily to Authorized Participants, market makers, and other interested parties through Vanguard's proprietary portal system. For all ETF Funds except Vanguard Extended Duration Treasury Index Fund, an additional charge may be imposed for purchases of Creation Units effected outside the Clearing Process. When an ETF Fund permits (or requires) a purchaser to substitute cash in lieu of depositing one or more Deposit Securities, the purchaser may be assessed an additional charge on the cash-in-lieu portion of the investment. The amount of this charge will be disclosed to investors before they place their orders. The amount will be determined by the ETF Fund at its sole discretion. The maximum transaction fee on purchases of Creation Units, including any additional charges as described, shall be 2% of the value of the Creation Units.

Each ETF Fund reserves the right to not impose a transaction fee or to vary the amount of the transaction fee imposed, up to the maximum amount listed above. To the extent a creation transaction fee is not charged or does not cover the costs associated with the issuance of the Creation Units, certain costs may be borne by the Fund.

Redemption of ETF Shares in Creation Units

To be eligible to place a redemption order, you must be an Authorized Participant. Investors that are not Authorized Participants must make appropriate arrangements with an Authorized Participant in order to redeem a Creation Unit.

ETF Shares may be redeemed only in Creation Units. Investors should expect to incur brokerage and other transaction costs in connection with assembling a sufficient number of ETF Shares to constitute a redeemable Creation Unit. There can be no assurance, however, that there will be sufficient liquidity in the public trading market at any time to permit assembly of a Creation Unit. Redemption requests received on a business day in good order will receive the NAV next determined after the request is made.

Unless cash redemptions are available or specified for an ETF Fund, an investor tendering a Creation Unit generally will receive redemption proceeds consisting of (1) a basket of Redemption Securities; plus (2) a redemption balancing amount in cash equal to the difference between (x) the NAV of the Creation Unit being redeemed, as next determined after receipt of a request in proper form, and (y) the value of the Redemption Securities; less (3) a transaction fee. If the Redemption Securities have a value greater than the NAV of a Creation Unit, the redeeming investor will pay the redemption balancing amount in cash to the ETF Fund, rather than receive such amount from the Fund.

Vanguard, through the NSCC, makes available after the close of each business day a list of the names and the number of shares of each Redemption Security to be included in the next business day's redemption basket for each ETF Fund (subject to possible amendment or correction). The basket of Redemption Securities provided to an investor redeeming a Creation Unit may not be identical to the basket of Deposit Securities required of an investor purchasing a Creation Unit. An ETF Fund may provide a redeeming investor with a basket of Redemption Securities that differs from the composition of the redemption basket published through the NSCC.

Each ETF Fund reserves the right to deliver cash in lieu of any Redemption Security for the same reason it might accept cash in lieu of a Deposit Security, as previously discussed, or if the ETF Fund could not lawfully deliver the security or could not do so without first registering such security under federal or state law.

Neither the Trust, the ETF Funds, the Distributor, nor any affiliated party will be liable to an investor who is unable to submit a redemption order by Closing Time, even if the problem is the responsibility of one of those parties (e.g., the Distributor's phone or email systems were not operating properly).

Transaction Fee on Redemptions of Creation Units. Each ETF Fund may impose a transaction fee (payable to the Fund) to compensate the ETF Fund for costs associated with the redemption of Creation Units. The amount of the fee, which may be changed by each ETF Fund from time to time at its sole discretion, is made available daily to Authorized Participants, market makers, and other interested parties through Vanguard's proprietary portal system. For all ETF Funds except Vanguard Extended Duration Treasury Index Fund, an additional charge may be imposed for redemptions of Creation Units effected outside the Clearing Process. When an ETF Fund permits (or requires) a redeeming investor to receive cash in lieu of one or more Redemption Securities, each ETF Fund may assess an additional variable charge on the cash portion of the redemption. The amount will vary as determined by the ETF Fund at its sole discretion and is made available daily to Authorized Participants, market makers, and other interested parties through Vanguard's proprietary portal system. The maximum transaction fee, including any variable charges, on redemptions of Creation Units shall be 2% of the value of the Creation Units.

Each ETF Fund reserves the right to not impose a transaction fee or to vary the amount of the transaction fee imposed, up to the maximum amount listed above. To the extent a redemption transaction fee is not charged or does not cover the costs associated with the redemption of the Creation Units, certain costs may be borne by the ETF Fund.

Placement of Redemption Orders for Vanguard U.S. Sector ETFs and Vanguard Mega Cap ETFs

Redemption Orders Using the Clearing Process

An Authorized Participant may place an order to redeem Creation Units of a stock ETF Fund either (1) through the CNS clearing processes of the NSCC as such processes have been enhanced to effect redemptions of Creation Units, such processes being referred to herein as the Clearing Process, or (2) outside the Clearing Process. To redeem through the Clearing Process, an Authorized Participant must be a member of the NSCC that is eligible to use the CNS system. Redemptions of Creation Units cleared through the Clearing Process will be subject to a lower transaction fee than those cleared outside the Clearing Process.

An order to redeem Creation Units through the Clearing Process is deemed received on the transmittal date if (1) such order is received by the ETF Fund's designated agent before Closing Time on such transmittal date and (2) all other procedures set forth in the Participant Agreement are properly followed. Such order will be effected based on the NAV of an ETF Fund next determined on that day. An order to redeem Creation Units through the Clearing Process made in proper form but received by an ETF Fund after Closing Time on the transmittal date will be deemed received on the next business day immediately following the transmittal date and will be effected at the NAV next determined on that day. The Redemption Securities and the Cash Redemption Amount will be transferred by the second NSCC business day following the date on which the redemption request is deemed received.

Redemption Orders Outside the Clearing Process

An Authorized Participant that wishes to place an order to redeem a Creation Unit outside the Clearing Process must state that it is not using the Clearing Process and that redemption instead will be effected through a transfer of ETF Shares directly through the DTC. An order to redeem a Creation Unit of an ETF Fund outside the Clearing Process is deemed received on the transmittal date if (1) such order is received by the ETF Fund's designated agent before Closing Time on such transmittal date and (2) all other procedures set forth in the Participant Agreement are properly followed.

If a redemption order in proper form is submitted to the transfer agent by an Authorized Participant prior to Closing Time on the transmittal date, then the value of the Redemption Securities and the Cash Redemption Amount will be determined by the ETF Fund on such transmittal date.

After the transfer agent has deemed an order for redemption outside the Clearing Process received, the transfer agent will initiate procedures to transfer the Redemption Securities and the Cash Redemption Amount to the Authorized Participant on behalf of the redeeming Beneficial Owner by the second business day following the transmittal date on which such redemption order is deemed received by the transfer agent.

If on T+2 an Authorized Participant has failed to deliver all of the Vanguard ETF Shares it is seeking to redeem, the ETF Fund shall be entitled to cancel the redemption order. Alternatively, the ETF Fund may deliver to the Authorized Participant the full complement of Redemption Securities and cash in reliance on the Authorized Participant's undertaking to deliver the missing ETF Shares at a later date. Such undertaking shall be secured by the Authorized Participant's delivery and maintenance of cash collateral in accordance with collateral procedures that are part of the Participant Agreement. In all cases the ETF Fund shall be entitled to charge the Authorized Participant for any costs (including investment losses, attorney's fees, and interest) incurred by the ETF Fund as a result of the late delivery or failure to deliver.

Each ETF Fund reserves the right, at its sole discretion, to require or permit a redeeming investor to receive the redemption proceeds in cash. In such cases, the investor would receive a cash payment equal to the NAV of its ETF Shares based on the NAV of those shares next determined after the redemption request is received in proper form (minus a transaction fee, including a charge for cash redemptions, as previously discussed).

If an Authorized Participant, or a redeeming investor acting through an Authorized Participant, is subject to a legal restriction with respect to a particular security included in the basket of Redemption Securities, such investor may be paid an equivalent amount of cash in lieu of the security. In addition, each ETF Fund reserves the right to redeem Creation Units partially for cash to the extent that the Fund could not lawfully deliver one or more Redemption Securities or could not do so without first registering such securities under federal or state law.

Placement of Redemption Orders for Vanguard Extended Duration Treasury ETF. To initiate a redemption order for a Creation Unit, an Authorized Participant must submit such order in proper form to the Distributor before Closing Time in order to receive that day's NAV. Authorized Participants must transmit orders using a transmission method acceptable to the Distributor pursuant to procedures set forth in the Participant Agreement.

If on the settlement date (typically T+2) an Authorized Participant has failed to deliver all of the Vanguard ETF Shares it is seeking to redeem, the ETF Fund shall be entitled to cancel the redemption order. Alternatively, the ETF Fund may deliver to the Authorized Participant the full complement of Redemption Securities and cash in reliance on the Authorized Participant's undertaking to deliver the missing ETF Shares at a later date. Such undertaking shall be secured by the Authorized Participant's delivery and maintenance of cash collateral in accordance with collateral procedures that are part of the Participant Agreement. In all cases the ETF Fund shall be entitled to charge the Authorized Participant for any costs (including investment losses, attorney's fees, and interest) incurred by the ETF Fund as a result of the late delivery or failure to deliver.

If an Authorized Participant, or a redeeming investor acting through an Authorized Participant, is subject to a legal restriction with respect to a particular security included in the basket of Redemption Securities, such investor may be paid an equivalent amount of cash in lieu of the security. In addition, each ETF Fund reserves the right to redeem Creation Units partially for cash to the extent that the Fund could not lawfully deliver one or more Redemption Securities or could not do so without first registering such securities under federal or state law.

Suspension of Redemption Rights. The right of redemption may be suspended or the date of payment postponed with respect to an ETF Fund (1) for any period during which the NYSE or listing exchange is closed (other than customary weekend and holiday closings), (2) for any period during which trading on the NYSE or listing exchange is suspended or restricted, (3) for any period during which an emergency exists as a result of which disposal of the Fund's portfolio securities or determination of its NAV is not reasonably practicable, or (4) in such other circumstances as the SEC permits.

Precautionary Notes

A precautionary note to ETF investors: The DTC or its nominee will be the registered owner of all outstanding ETF Shares. Your ownership of ETF Shares will be shown on the records of the DTC and the DTC Participant broker through which you hold the shares. Vanguard will not have any record of your ownership. Your account information will be

maintained by your broker, which will provide you with account statements, confirmations of your purchases and sales of ETF Shares, and tax information. Your broker also will be responsible for distributing income and capital gains distributions and for ensuring that you receive shareholder reports and other communications from the fund whose ETF Shares you own. You will receive other services (e.g., dividend reinvestment and average cost information) only if your broker offers these services.

You should also be aware that investments in ETF Shares may be subject to certain risks relating to having large shareholders. To the extent that a large number of the Fund's ETF Shares are held by a large shareholder (e.g., an institutional investor, an investment advisor or an affiliate of an investment advisor, an authorized participant, a lead market maker, or another entity), a large redemption by such a shareholder could result in an increase in the ETF's expense ratio, cause the ETF to incur higher transaction costs, cause the ETF to fail to comply with applicable listing standards of the listing exchange upon which it is listed, lead to the realization of taxable capital gains, or cause the remaining shareholders to receive distributions representing a disproportionate share of the ETF's ordinary income and long-term capital gains. In addition, transactions by large shareholders may account for a large percentage of the trading volume on an exchange and may, therefore, have a material upward or downward effect on the market price of the ETF Shares.

A precautionary note to purchasers of Creation Units: You should be aware of certain legal risks unique to investors purchasing Creation Units directly from the issuing fund.

Because new ETF Shares may be issued on an ongoing basis, a "distribution" of ETF Shares could be occurring at any time. Certain activities that you perform as a dealer could, depending on the circumstances, result in your being deemed a participant in the distribution in a manner that could render you a statutory underwriter and subject you to the prospectus delivery and liability provisions of the Securities Act of 1933 (the 1933 Act). For example, you could be deemed a statutory underwriter if you purchase Creation Units from the issuing fund, break them down into the constituent ETF Shares, and sell those shares directly to customers or if you choose to couple the creation of a supply of new ETF Shares with an active selling effort involving solicitation of secondary market demand for ETF Shares. Whether a person is an underwriter depends upon all of the facts and circumstances pertaining to that person's activities, and the examples mentioned here should not be considered a complete description of all the activities that could cause you to be deemed an underwriter.

Dealers who are not "underwriters" but are participating in a distribution (as opposed to engaging in ordinary secondary-market transactions), and thus dealing with ETF Shares as part of an "unsold allotment" within the meaning of Section 4(3)(C) of the 1933 Act, will be unable to take advantage of the prospectus delivery exemption provided by Section 4(3) of the 1933 Act.

A precautionary note to shareholders redeeming Creation Units: An Authorized Participant that is not a "qualified institutional buyer" as defined in Rule 144A under the 1933 Act will not be able to receive, as part of the redemption basket, restricted securities eligible for resale under Rule 144A.

A precautionary note to investment companies: Vanguard ETF Shares are issued by registered investment companies, and therefore the acquisition of such shares by other investment companies is subject to the restrictions of Section 12(d)(1) of the Investment Company Act of 1940. Vanguard has obtained an SEC exemptive order that allows registered investment companies to invest in the issuing funds beyond the limits of Section 12(d)(1), subject to certain terms and conditions, including the requirement to enter into a participation agreement with Vanguard.

ETF Shares: Foreign Market Information

The security settlement cycles and local market holiday schedules in foreign markets, as well as unscheduled foreign market closings, may result in the delivery of redemption proceeds (either in kind or in cash) more than seven days after receipt of a redemption request in proper form. Below are the dates of regular holidays affecting the relevant markets in which the ETF Fund invests and the dates on which, if a redemption request is submitted, the settlement period in a given market will exceed seven days. The proclamation of new holidays, the treatment by market participants of certain days as "informal holidays," the elimination of existing holidays, or changes in local securities delivery practices could affect the information set forth herein at some time in the future.

Regular Holidays. The calendar year 2020 local market holidays are as follows:

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Albania	1, 2		14, 24	13, 20	1		31		7		30	8, 25

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Argentina	1	24, 25	23, 24	2, 9, 10	1, 25	15	9, 10	17		12	6, 23	7, 8, 25
Australia	1, 27		2, 9	10, 13	4	1, 8		3, 12	28	5	3	24, 25, 28, 31
Austria	1			10, 13	1	1				26		24, 25, 31
Bahrain**	1				24-26			2, 20		29		16, 17
Bangladesh			17, 26	9, 14	6, 21, 24, 25		1	2, 11, 30		26		16, 31
Belgium	1, 10			10, 13	1, 21, 22	1	21				11	24, 25, 31
Benin	1			13	1, 20, 21	1	31	7		29		25
Bermuda	1			10	29	15	30, 31		7		11	25, 28
Bosnia and Herzegovina, Fed. of	1, 2, 7, 9			13, 17, 20	1, 25		31				21, 25	25
Botswana	1, 2			10, 13	1, 21		1, 20, 21		30	1		25
Brazil	1	24, 25, 26		10, 21	1	11	9		7	12	2, 20	24, 25, 31
Bulgaria	1		3	10, 13, 17, 20	1, 6, 25				7, 22			24, 25, 28
Burkina Faso	1			13	1, 20, 21	1	31	7		29		25
Canada	1, 2	17		10	18	24	1	3	7	12	11	24, 25, 28
Chile	1			10	1, 21	29	16		18	12		8, 25, 31
China	1, 24, 27-30			6	1, 4, 5	25, 26				1, 2, 5-8		
China Connect - Stock Connect	1, 24, 27-30			6, 9, 10, 13, 29, 30	1, 4, 5	25, 26, 30	1			1, 2, 5-8, 23, 26		24, 25
Colombia	1, 6		23	9, 10	1, 25	15, 22, 29	20	7, 17		12	2, 16	8, 24, 25, 31
Costa Rica	1			9-10	1				15	12		25
Croatia	1, 6			10, 13	1	11, 22		5			18	24, 25, 31
Cyprus	1, 6		2, 25	1, 10, 13, 17, 20, 21	1	8				1, 28		24, 25
Czech Republic	1			10, 13	1, 8		6		28	28	17	24, 25, 31
Denmark	1			9, 10, 13	8, 21, 22	1, 5						24, 25, 31
Egypt**	1, 7			19, 20	24, 25		23, 30	20		6, 29		
Estonia	1	24		10, 13	1, 21	23, 24		20				24, 25, 31
Eswatini	1			10, 13, 20	1, 21		22		7			25, 28
Finland	1, 6			10, 13	1, 21	19						24, 25, 31
France	1			10, 13	1							24, 25, 31
Germany	1			10, 13	1	1						24, 25, 31
Ghana	1, 7		6	10, 13	1, 25		30, 31	4	21			4, 25, 28

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Greece	1, 6		2, 25	10, 13, 17, 20	1	8				28		24, 25
Guinea-Bissau	1			13	1, 20, 21	1	31	7		29		25
Hong Kong	1, 27, 28			10, 13, 30	1	25	1			1, 2, 26		25
Hungary	1			10, 13	1	1		20, 21		23	1	24, 25
Iceland	1			9, 10, 13, 23	1, 21	1, 17		3				24, 25, 31
India		19, 21	10, 25	1, 2, 6, 10, 14	1, 7, 25					2, 30	16, 30	25
Indonesia	1		25	10	1, 7, 21, 22, 25-27	1	31	17, 20		29		24, 25, 31
Ireland	1		17	10, 13	1, 4	1		3		26		24, 25, 26, 28, 29, 31
Israel**			10	8, 9, 12, 13, 14, 15, 28, 29	28, 29	30	30		20, 27, 28	4-8		
Italy	1			10, 13	1							24, 25, 31
Ivory Coast	1			13	1, 20, 21	1	31	7		29		25
Japan	1-3, 13	11, 24	20	29	4-6		23, 24	10	21, 22		3, 23	31
Jordan**	1				24-26		30	2, 3, 20		29		
Kazakhstan	1, 2, 7		9, 23, 24, 25		1, 7, 11		6, 31	31				1, 16, 17
Kenya	1			10, 13	1, 25	1	31			20		25
Korea, Republic of	1, 24, 27			15, 30	1, 5				30	1, 2, 9		25, 31
Kuwait**	1, 2	25, 26	22		24-26		30	2, 3, 20			1	
Latvia	1			10, 13	1, 4, 21	22-24					18	24, 25, 31
Lithuania	1		11	10, 13	1, 21	24	6				1	24, 25, 31
Luxembourg	1			10, 13	1							24, 25, 31
Malawi	1, 15		3	10, 13	1, 14, 25		6			15		25
Malaysia	1, 24, 27				1, 7, 11, 25, 26		31	20, 31	16	29		25
Mali	1			13	1, 20, 21	1	31	7		29		25
Mauritius	1, 2	21	12, 25		1						2	25
Mexico	1	3	16	9, 10	1				16		2, 16	25
Morocco	1				1, 25, 26		30, 31	14, 20, 21		30	6, 18	
Namibia	1			10, 13	1, 4, 21, 25			26				10, 25
Netherlands	1			10, 13	1							24, 25, 31
New Zealand	1, 2	6		10, 13, 27		1				26		25, 28

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Niger	1			13	1, 20, 21	1	31	7		29		25
Nigeria	1			10, 13	1, 25	12	31			1, 29		25
Norway	1			8, 9, 10, 13	1, 21	1						24, 25, 31
Oman**	1		22		24		23	20		29	18	
Panama	1, 13	24-26		9, 10	1						3-5, 10	8, 25, 31
Peru	1			9, 10	1	29	28			8		25
Poland	1, 6			10, 13	1	11					11	24, 25, 31
Portugal	1			10, 13	1							24, 25, 31
Qatar**	1	11	1		24-26		30, 31	1				18
Romania	1, 2			17, 20	1	1, 8					30	1, 25
Russia	1, 2, 7	24	9		1, 4, 5, 11	12					4	
Saudi Arabia**					24-28		30	2-5	23			
Senegal	1			13	1, 20, 21	1	31	7		29		25
Serbia	1, 1-3, 2, 6, 7	17		17, 20	1						11	
Singapore	1, 27			10	1, 7, 25		31	10				25
Slovak Republic	1, 6			10, 13	1, 8				1, 15		17	24, 25
Slovenia	1, 2			10, 13, 27	1	25						24, 25, 31
South Africa	1			10, 13, 27	1	16		10	24			16, 25
Spain	1			10, 13	1							24, 25, 31
Sri Lanka	1, 10, 15	4, 21	9	7, 10, 13, 14	1, 7, 8, 25	5		3	1	1, 30		25, 29
Sweden	1, 6			9, 10, 13, 30	1, 20, 21	19				30		24, 25, 31
Switzerland	1, 2			10, 13, 20	1, 21	1			14			24, 25, 31
Taiwan	1, 23, 24, 27-29	28		2, 3	1	25, 26					1, 2, 9	
Tanzania	1			7, 10, 13	1		7, 31			14, 29		9, 25
Thailand	1	10		6, 13-15	1, 4, 6	3	6, 28	12		13, 23		7, 10, 31
Togo	1			13	1, 20, 21	1	31	7		29		25
Turkey	1			23	1, 19, 25, 26		15, 30, 31	3		28, 29		
Uganda	1			10, 13	1	3, 9	31			9		25
Ukraine	1, 2, 6, 7				1			24		14		25
United Arab Emirates - ADX	1				24-26		31	20				1-3
United Arab Emirates - DFM	1				24-26		31	20				1-3
United Arab Emirates - DIFC	1				24-26		31	20				1-3
United Kingdom	1			10, 13	8, 25			31				25, 28

Country	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
United States	1, 20	17		10	25		3		7	12	11, 26, 27	24, 25
Uruguay	1, 6	24, 25		9, 10	1, 18	19		25		12	2	25
Vietnam	1, 23, 24, 27-29			2, 30	1				2			
Zambia	1		9, 12	10, 13	1, 25		6, 7	3		19		25
Zimbabwe	1	21		10, 13	1, 25			10, 11				22, 25

** Market is closed every Friday

Redemption. A redemption request submitted on the following dates in the following foreign markets in calendar year 2020 will result in a settlement period that exceeds seven calendar days.

Argentina

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Australia

Redemption Date	Redemption Settlement Date	Settlement Period
12/22/2020	12/29/2020	T+7
12/24/2020	12/30/2020	T+7

Austria

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Bahrain

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/27/2020	T+7
05/21/2020	05/28/2020	T+7

Bangladesh

Redemption Date	Redemption Settlement Date	Settlement Period
05/19/2020	05/27/2020	T+8
05/20/2020	05/28/2020	T+8

Belgium

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Bermuda

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Botswana

Redemption Date	Redemption Settlement Date	Settlement Period
04/06/2020	04/14/2020	T+8
04/08/2020	04/16/2020	T+8
04/09/2020	04/17/2020	T+8
04/27/2020	05/04/2020	T+7
04/28/2020	05/05/2020	T+7
04/29/2020	05/06/2020	T+7
04/30/2020	05/07/2020	T+7
05/15/2020	05/22/2020	T+7
05/18/2020	05/25/2020	T+7
05/19/2020	05/26/2020	T+7
05/20/2020	05/27/2020	T+7
06/25/2020	07/02/2020	T+7

Botswana

Redemption Date	Redemption Settlement Date	Settlement Period
06/26/2020	07/03/2020	T+7
06/29/2020	07/06/2020	T+7
06/30/2020	07/07/2020	T+7
07/14/2020	07/22/2020	T+8
07/15/2020	07/23/2020	T+8
07/16/2020	07/24/2020	T+8
07/17/2020	07/27/2020	T+10
09/24/2020	10/02/2020	T+8
09/25/2020	10/05/2020	T+10
09/28/2020	10/06/2020	T+8
09/29/2020	10/07/2020	T+8
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7
12/24/2020	12/31/2020	T+7

Brazil

Redemption Date	Redemption Settlement Date	Settlement Period
02/19/2020	02/26/2020	T+7
02/20/2020	02/27/2020	T+7
02/21/2020	02/28/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7

Bulgaria

Redemption Date	Redemption Settlement Date	Settlement Period
12/23/2020	12/30/2020	T+7
12/22/2020	12/29/2020	T+7

Canada

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Chile

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

China A-Share

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

China B-Share

Redemption Date	Redemption Settlement Date	Settlement Period
01/21/2020	02/03/2020	T+13
01/22/2020	02/04/2020	T+13
01/23/2020	02/05/2020	T+13
04/28/2020	05/06/2020	T+8
04/29/2020	05/07/2020	T+8
04/30/2020	05/08/2020	T+8
06/22/2020	06/29/2020	T+7
06/23/2020	06/30/2020	T+7
06/24/2020	07/01/2020	T+7
09/28/2020	10/09/2020	T+11
09/29/2020	10/12/2020	T+13
09/30/2020	10/13/2020	T+13

China Connect - Northbound Bonds

Redemption Date	Redemption Settlement Date	Settlement Period
04/03/2020	04/14/2020	T+11
04/07/2020	04/15/2020	T+8
04/08/2020	04/16/2020	T+8
04/24/2020	05/06/2020	T+12
04/27/2020	05/07/2020	T+10
04/28/2020	05/08/2020	T+10
06/22/2020	06/29/2020	T+7
06/23/2020	07/02/2020	T+9
06/24/2020	07/03/2020	T+9
06/29/2020	07/06/2020	T+7
09/28/2020	10/09/2020	T+11
09/29/2020	10/12/2020	T+13
09/30/2020	10/13/2020	T+13
10/20/2020	10/27/2020	T+7
10/21/2020	10/28/2020	T+7
10/22/2020	10/29/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7

Colombia

Redemption Date	Redemption Settlement Date	Settlement Period
12/31/2019	01/07/2020	T+7
04/06/2020	04/13/2020	T+7
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7

Costa Rica

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Croatia

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Cyprus

Redemption Date	Redemption Settlement Date	Settlement Period
04/15/2020	04/22/2020	T+7
04/16/2020	04/23/2020	T+7

Czech Republic

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Denmark

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7

Egypt

Redemption Date	Redemption Settlement Date	Settlement Period
07/28/2020	08/04/2020	T+7
07/29/2020	08/05/2020	T+7

Estonia		
Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		
Finland		
Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		
France		
Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		
Germany		
Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		
Ghana		
Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
07/27/2020	08/03/2020	T+7
07/28/2020	08/05/2020	T+8
07/29/2020	08/06/2020	T+8
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7
12/24/2020	12/31/2020	T+7
Greece		
Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		
Hong Kong - Equity		
Redemption Date	Redemption Settlement Date	Settlement Period
01/22/2020	01/29/2020	T+7
01/23/2020	01/30/2020	T+7
Hong Kong - Corporate/Government Debt		
Redemption Date	Redemption Settlement Date	Settlement Period
01/21/2020	01/29/2020	T+8
01/22/2020	01/30/2020	T+8
01/23/2020	01/31/2020	T+8
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
04/27/2020	05/04/2020	T+7
04/28/2020	05/05/2020	T+7
04/29/2020	05/06/2020	T+7
09/28/2020	10/05/2020	T+7
09/29/2020	10/06/2020	T+7
09/30/2020	10/07/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7
12/28/2020	01/04/2021	T+7
12/29/2020	01/05/2021	T+7
12/30/2020	01/06/2021	T+7

Hungary**Redemption Date**No settlement cycles (\geq): T+7**Redemption Settlement Date****Settlement Period****Iceland****Redemption Date**

04/07/2020

04/08/2020

Redemption Settlement Date

04/14/2020

04/15/2020

Settlement Period

T+7

T+7

India**Redemption Date**No settlement cycles (\geq): T+7**Redemption Settlement Date****Settlement Period****Indonesia - Equity****Redemption Date**

05/19/2020

05/20/2020

Redemption Settlement Date

05/28/2020

05/29/2020

Settlement Period

T+9

T+9

Indonesia - Corporate/Government Debt**Redemption Date**

05/18/2020

05/19/2020

05/20/2020

08/14/2020

12/21/2020

12/22/2020

12/23/2020

12/28/2020

12/29/2020

12/30/2020

Redemption Settlement Date

05/28/2020

05/29/2020

06/02/2020

08/21/2020

12/28/2020

12/29/2020

12/30/2020

01/04/2021

01/05/2021

01/06/2021

Settlement Period

T+10

T+10

T+13

T+7

T+7

T+7

T+7

T+7

T+7

T+7

Ireland**Redemption Date**No settlement cycles (\geq): T+7**Redemption Settlement Date****Settlement Period****Israel****Redemption Date**

04/06/2020

04/07/2020

09/30/2020

10/01/2020

Redemption Settlement Date

04/16/2020

04/19/2020

10/11/2020

10/12/2020

Settlement Period

T+10

T+12

T+11

T+11

Italy**Redemption Date**No settlement cycles (\geq): T+7**Redemption Settlement Date****Settlement Period****Japan - Equity****Redemption Date**

12/27/2019

12/30/2019

04/30/2020

05/01/2020

Redemption Settlement Date

01/06/2020

01/07/2020

05/07/2020

05/08/2020

Settlement Period

T+10

T+8

T+7

T+7

Japan - Corporate/Government Debt**Redemption Date**

04/28/2020

04/30/2020

05/01/2020

07/20/2020

Redemption Settlement Date

05/07/2020

05/08/2020

05/11/2020

07/27/2020

Settlement Period

T+9

T+8

T+10

T+7

Japan - Corporate/Government Debt

Redemption Date	Redemption Settlement Date	Settlement Period
07/21/2020	07/28/2020	T+7
07/22/2020	07/29/2020	T+7
09/16/2020	09/23/2020	T+7
09/17/2020	09/24/2020	T+7
09/18/2020	09/25/2020	T+7
12/28/2020	01/04/2020	T+7
12/29/2020	01/05/2020	T+7
12/30/2020	01/06/2020	T+7

Jordan

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/27/2020	T+7
05/21/2020	05/28/2020	T+7
07/28/2020	08/04/2020	T+7
07/29/2020	08/05/2020	T+7

Kazakhstan

Redemption Date	Redemption Settlement Date	Settlement Period
03/18/2020	03/26/2020	T+8
03/19/2020	03/27/2020	T+8
03/20/2020	03/30/2020	T+10
05/05/2020	05/12/2020	T+7
05/06/2020	05/13/2020	T+7
12/11/2020	12/18/2020	T+7
12/14/2020	12/21/2020	T+7
12/15/2020	12/22/2020	T+7
12/29/2020	01/05/2021	T+7
12/30/2020	01/06/2021	T+7
12/31/2020	01/08/2021	T+8

Kenya

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7

Kuwait

Redemption Date	Redemption Settlement Date	Settlement Period
01/07/2020	01/14/2020	T+7
01/08/2020	01/15/2020	T+7
01/09/2020	01/16/2020	T+7
02/20/2020	02/27/2020	T+7
02/23/2020	03/01/2020	T+7
02/24/2020	03/02/2020	T+7
05/19/2020	05/27/2020	T+8
05/20/2020	05/28/2020	T+8
05/21/2020	05/31/2020	T+10
07/27/2020	08/04/2020	T+8
07/28/2020	08/05/2020	T+8
07/29/2020	08/06/2020	T+8

Latvia

Redemption Date	Redemption Settlement Date	Settlement Period
06/18/2020	06/25/2020	T+7
06/19/2020	06/26/2020	T+7

Lithuania

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7

Luxembourg

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Malawi

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7
12/24/2020	12/31/2020	T+7

Malaysia

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Mauritius

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Mexico

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Morocco

Redemption Date	Redemption Settlement Date	Settlement Period
07/27/2020	08/03/2020	T+7
07/28/2020	08/04/2020	T+7
07/29/2020	08/05/2020	T+7
08/17/2020	08/24/2020	T+7
08/18/2020	08/25/2020	T+7
08/19/2020	08/26/2020	T+7
10/26/2020	11/02/2020	T+7
10/27/2020	11/03/2020	T+7
10/28/2020	11/04/2020	T+7

Namibia

Redemption Date	Redemption Settlement Date	Settlement Period
04/03/2020	04/14/2020	T+11
04/06/2020	04/15/2020	T+9
04/07/2020	04/16/2020	T+9
04/08/2020	04/17/2020	T+9
04/09/2020	04/20/2020	T+11
04/24/2020	05/05/2020	T+11
04/27/2020	05/06/2020	T+9
04/28/2020	05/07/2020	T+9
04/29/2020	05/08/2020	T+9
04/30/2020	05/11/2020	T+11

Namibia

Redemption Date	Redemption Settlement Date	Settlement Period
05/14/2020	05/22/2020	T+8
05/15/2020	05/26/2020	T+11
05/18/2020	05/27/2020	T+9
05/19/2020	05/28/2020	T+9
05/20/2020	05/29/2020	T+9
05/22/2020	06/01/2020	T+10
08/19/2020	08/27/2020	T+8
08/20/2020	08/28/2020	T+8
08/21/2020	08/31/2020	T+10
08/24/2020	09/01/2020	T+8
08/25/2020	09/02/2020	T+8
12/03/2020	12/11/2020	T+8
12/04/2020	12/14/2020	T+10
12/07/2020	12/15/2020	T+8
12/08/2020	12/16/2020	T+8
12/09/2020	12/17/2020	T+8
12/18/2020	12/28/2020	T+10
12/21/2020	12/29/2020	T+8
12/22/2020	12/30/2020	T+8
12/23/2020	12/31/2020	T+8
12/24/2020	01/04/2021	T+11

Netherlands

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

New Zealand

Redemption Date	Redemption Settlement Date	Settlement Period
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7

Nigeria

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
07/28/2020	08/04/2020	T+7
07/29/2020	08/05/2020	T+7
07/30/2020	08/06/2020	T+7

Norway

Redemption Date	Redemption Settlement Date	Settlement Period
04/06/2020	04/14/2020	T+8
04/07/2020	04/15/2020	T+8

Oman

Redemption Date	Redemption Settlement Date	Settlement Period
01/07/2020	01/15/2020	T+8
01/08/2020	01/16/2020	T+8
01/09/2020	01/19/2020	T+10
05/19/2020	05/31/2020	T+12
05/20/2020	06/01/2020	T+12
05/21/2020	06/02/2020	T+12
07/27/2020	08/04/2020	T+8
07/28/2020	08/05/2020	T+8

Oman

Redemption Date	Redemption Settlement Date	Settlement Period
07/29/2020	08/06/2020	T+8
11/29/2020	12/06/2020	T+7
11/30/2020	12/07/2020	T+7
12/01/2020	12/08/2020	T+7

Pakistan

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/28/2020	T+8
05/21/2020	05/29/2020	T+8

Panama

Redemption Date	Redemption Settlement Date	Settlement Period
02/20/2020	02/27/2020	T+7
02/21/2020	02/28/2020	T+7
10/30/2020	11/06/2020	T+7
11/02/2020	11/09/2020	T+7

Peru

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Philippines

Redemption Date	Redemption Settlement Date	Settlement Period
04/06/2020	04/13/2020	T+7
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	01/04/2021	T+12
12/28/2020	01/05/2021	T+8
12/29/2020	01/06/2021	T+8

Poland

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Portugal

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Qatar

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/28/2020	T+8
05/21/2020	05/31/2020	T+10
05/24/2020	06/01/2020	T+8
07/27/2020	08/04/2020	T+8
07/28/2020	08/05/2020	T+8
07/29/2020	08/06/2020	T+8

Romania

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Russia

Redemption Date	Redemption Settlement Date	Settlement Period
04/28/2020	05/06/2020	T+8
04/29/2020	05/07/2020	T+8

Russia

Redemption Date	Redemption Settlement Date	Settlement Period
04/30/2020	05/08/2020	T+8
12/28/2020	01/08/2021	T+11
12/29/2020	01/11/2021	T+13
12/30/2020	01/12/2021	T+13

Saudi Arabia

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/31/2020	T+11
05/21/2020	06/01/2020	T+11
07/28/2020	08/06/2020	T+9
07/29/2020	08/09/2020	T+11

Serbia

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Singapore

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Slovak Republic

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Slovenia

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

South Africa

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7

South Korea

Redemption Date	Redemption Settlement Date	Settlement Period
04/29/2020	05/06/2020	T+7
09/28/2020	10/05/2020	T+7
09/29/2020	10/06/2020	T+7

Spain

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (\geq): T+7		

Sri Lanka

Redemption Date	Redemption Settlement Date	Settlement Period
04/06/2020	04/15/2020	T+9
04/08/2020	04/16/2020	T+8
04/09/2020	04/17/2020	T+8
05/04/2020	05/11/2020	T+7
05/05/2020	05/12/2020	T+7
05/06/2020	05/13/2020	T+7
12/23/2020	12/30/2020	T+7
12/24/2020	12/31/2020	T+7

Sweden

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7

Switzerland

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Taiwan

Redemption Date	Redemption Settlement Date	Settlement Period
01/17/2020	01/30/2020	T+13
01/20/2020	01/31/2020	T+11

Tanzania

Redemption Date	Redemption Settlement Date	Settlement Period
04/06/2020	04/14/2020	T+8
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7

Thailand

Redemption Date	Redemption Settlement Date	Settlement Period
04/09/2020	04/16/2020	T+7
04/10/2020	04/17/2020	T+7
04/30/2020	05/07/2020	T+7

Tunisia

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/27/2020	T+7
05/21/2020	05/28/2020	T+7
05/22/2020	05/29/2020	T+7

Turkey

Redemption Date	Redemption Settlement Date	Settlement Period
07/28/2020	08/04/2020	T+7
07/29/2020	08/05/2020	T+7

Uganda

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7

Ukraine

Redemption Date	Redemption Settlement Date	Settlement Period
01/02/2020	01/09/2020	T+7
01/03/2020	01/10/2020	T+7

United Arab Emirates

Redemption Date	Redemption Settlement Date	Settlement Period
05/20/2020	05/27/2020	T+7
05/21/2020	05/28/2020	T+7
11/29/2020	12/06/2020	T+7

United Kingdom

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

United States

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Uruguay

Redemption Date	Redemption Settlement Date	Settlement Period
No settlement cycles (>=): T+7		

Vietnam

Redemption Date	Redemption Settlement Date	Settlement Period
01/21/2020	01/30/2020	T+9
01/22/2020	01/31/2020	T+9

WAEMU

Redemption Date	Redemption Settlement Date	Settlement Period
04/27/2020	05/04/2020	T+7
04/28/2020	05/05/2020	T+7
04/29/2020	05/06/2020	T+7
05/15/2020	05/22/2020	T+7
05/18/2020	05/25/2020	T+7
05/19/2020	05/26/2020	T+7
08/03/2020	08/10/2020	T+7
08/04/2020	08/11/2020	T+7
08/05/2020	08/12/2020	T+7
12/21/2020	12/28/2020	T+7
12/22/2020	12/29/2020	T+7
12/23/2020	12/30/2020	T+7

Zambia

Redemption Date	Redemption Settlement Date	Settlement Period
03/06/2020	03/13/2020	T+7
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
07/01/2020	07/08/2020	T+7
07/02/2020	07/09/2020	T+7
07/03/2020	07/10/2020	T+7

Zimbabwe

Redemption Date	Redemption Settlement Date	Settlement Period
04/07/2020	04/14/2020	T+7
04/08/2020	04/15/2020	T+7
04/09/2020	04/16/2020	T+7
08/05/2020	08/12/2020	T+7
08/06/2020	08/13/2020	T+7
08/07/2020	08/14/2020	T+7
12/21/2020	12/28/2020	T+7

In 2020, the maximum number of calendar days necessary to satisfy a redemption request would be 14 days.

FINANCIAL STATEMENTS

Each Fund's Financial Statements for the fiscal year ended August 31, 2020, appearing in the Funds' 2020 [Annual Reports](#) to Shareholders, and the reports thereon of PricewaterhouseCoopers LLP, an independent registered public accounting firm, also appearing therein, are incorporated by reference into this Statement of Additional Information. For a more complete discussion of each Fund's performance, please see the Funds' Annual and Semiannual Reports to Shareholders, which may be obtained without charge.

APPENDIX A

Vanguard-Advised Funds Proxy Voting Policy

Each Vanguard fund advised by Vanguard retains authority to vote proxies received with respect to the shares of equity securities held in a portfolio advised by Vanguard. The Board of Trustees (the Board) for the Vanguard-advised funds has adopted proxy voting procedures and guidelines to govern proxy voting for each portfolio retaining proxy voting authority.

The Investment Stewardship Oversight Committee (the Committee), made up primarily of fund officers and subject to the procedures described below, oversees the Vanguard-advised funds' proxy voting. The Committee reports directly to the Board. Vanguard is subject to these procedures and the proxy voting guidelines to the extent that they call for Vanguard to administer the voting process and implement the resulting voting decisions, and for these purposes the guidelines have also been approved by the Board of Directors of Vanguard.

The voting principles and guidelines adopted by the Board provide a framework for assessing each proposal and seek to ensure that each vote is cast in the best interests of each fund. Under the guidelines, each proposal is evaluated on its merits, based on the particular facts and circumstances as presented. For more information on the funds' proxy voting guidelines, please visit about.vanguard.com/investment-stewardship.

I. Investment Stewardship Team

The Investment Stewardship Team administers the day-to-day operation of the funds' proxy voting process, overseen by the Committee. The Investment Stewardship Team performs the following functions: (1) managing and conducting due diligence of proxy voting vendors; (2) reconciling share positions; (3) analyzing proxy proposals using factors described in the guidelines; (4) determining and addressing potential or actual conflicts of interest that may be presented by a particular proxy; and (5) voting proxies. The Investment Stewardship Team also prepares periodic and special reports to the Board, and proposes amendments to the procedures and guidelines. In addition, at any time, the Board may elect to exercise its discretionary authority to vote proxies.

II. Investment Stewardship Oversight Committee

The Board, including a majority of the independent trustees, appoints the members of the Committee (which is comprised primarily of fund officers). The Committee works with the Investment Stewardship Team to provide reports and other guidance to the Board regarding proxy voting by the funds. The Committee has an obligation to exercise its decision-making authority in accordance with the Board's instructions as set forth in the funds' proxy voting procedures and guidelines and subject to the fiduciary standards of good faith, fairness, and Vanguard's Code of Ethics. The Committee may advise the Investment Stewardship Team on how to best apply the Board's instructions as set forth in the guidelines or refer the matter to the Board, which has ultimate decision-making authority for the funds. The Board reviews the procedures and guidelines annually and modifies them from time to time upon the recommendation of the Committee and in consultation with the Investment Stewardship Team.

III. Proxy Voting Principles

Vanguard's investment stewardship activities are grounded in four principles of good governance:

- 1) *Board composition*: We believe good governance begins with a great board of directors. Our primary interest is to ensure that the individuals who represent the interests of all shareholders are independent, committed, capable, and appropriately experienced.
- 2) *Oversight of strategy and risk*: We believe that boards are responsible for effective oversight of a company's long-term strategy and any relevant and material risks.
- 3) *Executive compensation*: We believe that performance-linked compensation (or remuneration) policies and practices are fundamental drivers of sustainable, long-term value.
- 4) *Governance structures*: We believe that companies should have in place governance structures to ensure that boards and management serve in the best interests of the shareholders they represent.

IV. Evaluation of Proxies

For ease of reference, the procedures and guidelines often refer to all funds. However, the processes and practices seek to ensure that proxy voting decisions are suitable for individual funds. For most proxy proposals, particularly those involving corporate governance, the evaluation could result in the funds having a common interest in the matter and, accordingly, each fund casting votes in the same manner. In other cases, however, a fund may vote differently from other funds if doing so is in the best interest of the individual fund.

The guidelines do not permit the Board to delegate voting discretion to a third party that does not serve as a fiduciary for the funds. Because many factors bear on each decision, the guidelines incorporate factors that should be considered in each voting decision. A fund may refrain from voting some or all of its shares or vote in a particular way if doing so would be in the fund's and its shareholders' best interests. These circumstances may arise, for example, if the expected cost of voting exceeds the expected benefits of voting, if exercising the vote would result in the imposition of trading or other restrictions, or if a fund (or all Vanguard funds in the aggregate) were to own more than the permissible maximum percentage of a company's stock (as determined by the company's governing documents or by applicable law, regulation, or regulatory agreement).

In evaluating proxy proposals, we consider information from many sources, which could include, but is not limited to, an investment advisor unaffiliated with Vanguard that has investment and proxy voting authority with respect to Vanguard funds that hold shares in the applicable company, the management or shareholders of a company presenting a proposal, and independent proxy research services. We will give substantial weight to the recommendations of the company's board, absent guidelines or other specific facts that would support a vote against management. Additionally, data and recommendations from proxy advisors serve as one of many inputs into our research process. The funds may utilize automated voting for matters that are clearly addressed by the fund's procedures and guidelines.

While serving as a framework, the guidelines cannot contemplate all possible proposals with which a fund may be presented. In the absence of a specific guideline for a particular proposal (e.g., in the case of a transactional issue or contested proxy), the Investment Stewardship Team, under the supervision of the Committee, will evaluate the matter and cast the fund's vote in a manner that is in the fund's best interest, subject to the individual circumstances of the fund.

V. Conflicts of Interest

Vanguard takes seriously its commitment to avoid potential conflicts of interest. Vanguard funds invest in thousands of publicly listed companies worldwide. Those companies may include clients, potential clients, vendors, or competitors. Some companies may employ Vanguard trustees, former Vanguard executives, or family members of Vanguard personnel who have direct involvement in Vanguard's Investment Stewardship program.

Vanguard's approach to mitigating conflicts of interest begins with the funds' proxy voting procedures. The procedures require that voting personnel act as fiduciaries, and must conduct their activities at all times in accordance with the following standards: (i) fund shareholders' interests come first; (ii) conflicts of interest must be avoided; (iii) and compromising situations must be avoided.

We maintain an important separation between Vanguard's Investment Stewardship Team and other groups within Vanguard that are responsible for sales, marketing, client service, and vendor/partner relationships. Proxy voting personnel are required to disclose potential conflicts of interest, and must recuse themselves from all voting decisions and engagement activities in such instances. In certain circumstances, Vanguard may refrain from voting shares of a company, or may engage an independent third-party fiduciary to vote proxies.

Each externally managed fund has adopted the proxy voting guidelines of its advisor(s) and votes in accordance with the external advisors' guidelines and procedures. Each advisor has its own procedures for managing conflicts of interest in the best interests of fund shareholders.

VI. Environmental and Social Proposals

Proposals in this category, initiated primarily by shareholders, typically request that a company enhance its disclosure or amend certain business practices. These resolutions are evaluated in the context of the general corporate governance principle that a company's board has ultimate responsibility for providing effective ongoing oversight of relevant sector- and company-specific risks, including those related to environmental and social matters. Each proposal is evaluated on

its merits and supported when there is a logically demonstrable linkage between the specific proposal and long-term shareholder value of the company. Some of the factors considered when evaluating these proposals include the materiality of the issue, the quality of the current disclosures/business practices, and any progress by the company toward the adoption of best practices and/or industry norms.

VII. Voting in Markets Outside the United States

Corporate governance standards, disclosure requirements, and voting mechanics vary greatly among the markets outside the United States in which the funds may invest. Each fund's votes will be used, where applicable, to support improvements in governance and disclosure by each fund's portfolio companies. Matters presented by non-U.S. portfolio companies will be evaluated in the foregoing context, as well as in accordance with local market standards and best practices. Votes are cast for each fund in a manner philosophically consistent with the guidelines, taking into account differing practices by market.

In many other markets, voting proxies will result in a fund being prohibited from selling the shares for a period of time due to requirements known as "share-blocking" or reregistration. Generally, the value of voting is unlikely to outweigh the loss of liquidity imposed by these requirements on the funds. In such instances, the funds will generally abstain from voting.

The costs of voting (e.g., custodian fees, vote agency fees) in other markets may be substantially higher than for U.S. holdings. As such, the fund may limit its voting on foreign holdings in instances in which the issues presented are unlikely to have a material impact on shareholder value.

VIII. Voting Shares of a Company Subject to an Ownership Limitation

Certain companies have provisions in their governing documents or other agreements that restrict stock ownership in excess of a specified limit. Typically, these ownership restrictions are included in the governing documents of real estate investment trusts, but may be included in other companies' governing documents. A company's governing documents normally allow the company to grant a waiver of these ownership limits, which would allow a fund to exceed the stated ownership limit. Sometimes a company will grant a waiver without restriction. From time to time, a company may grant a waiver only if a fund (or funds) agrees to not vote the company's shares in excess of the normal specified limit. In such a circumstance, a fund may refrain from voting shares if owning the shares beyond the company's specified limit is in the best interests of the fund and its shareholders.

In addition, applicable law may require prior regulatory approval to permit ownership of certain regulated issuer's voting securities above certain limits or may impose other restrictions on owners of more than a certain percentage of a regulated issuer's voting shares. The Board has authorized the funds to vote shares above these limits in the same proportion as votes cast by the issuer's entire shareholder base (i.e., mirror vote), or to refrain from voting excess shares. Further, the Board has adopted policies that will result in certain funds mirror voting a higher proportion of the shares they own in a regulated issuer in order to permit certain other funds (generally advised by managers not affiliated with Vanguard) to mirror vote none, or a lower proportion of, their shares in such regulated issuer.

IX. Voting on a Fund's Holdings of Other Vanguard Funds

Certain Vanguard funds (owner funds) may, from time to time, own shares of other Vanguard funds (underlying funds). If an underlying fund submits a matter to a vote of its shareholders, votes for and against such matters on behalf of the owner funds will be cast in the same proportion as the votes of the other shareholders in the underlying fund.

X. Securities Lending

There may be occasions when Vanguard needs to restrict lending of and/or recall securities that are out on loan in order to vote in a shareholder meeting. Vanguard has processes to monitor securities on loan and to evaluate any circumstances that may require us to restrict and/or recall the stock. In making this decision, we consider:

- The subject of the vote and whether, based on our knowledge and experience, we believe the topic is potentially material to the corporate governance and/or long-term performance of the company;
- The Vanguard funds' individual and/or aggregate equity investment in a company, and whether we estimate that voting Vanguard funds' shares would affect the shareholder meeting outcome; and
- The long-term impact to our fund shareholders, evaluating whether we believe the benefits of voting a company's shares would outweigh the benefits of stock lending revenues in a particular instance.

APPENDIX B

Baillie Gifford Proxy Voting Guidelines

Baillie Gifford has adopted the Governance and Sustainability Principles and Guidelines (the Guidelines) to vote proxies related to securities held by the funds.

The Guidelines are developed and administered by the Governance & Sustainability Team of the Baillie Gifford Group. This Governance & Sustainability Team sits alongside the investment teams and is responsible for the voting of proxies. The head of this Governance & Sustainability Team jointly reports to an investment partner of Baillie Gifford & Co., the parent of Baillie Gifford, and to the senior investment committee of the Investment Management Group of the Baillie Gifford Group.

The Guidelines cover Baillie Gifford's approach to governance and sustainability matters including the following areas:

- Board Effectiveness and Composition
- Capital Allocation
- Governance Processes and Disclosure
- Remuneration
- Sustainability

Baillie Gifford recognizes that given the range of markets in which the Funds invest, one set of standards is unlikely to be appropriate. The Guidelines consequently take an issues based approach covering standards from a global perspective.

Pragmatic & Flexible Approach

Baillie Gifford recognizes that companies within particular markets operate under significantly differing conditions. The Guidelines are intended to provide an insight into how Baillie Gifford approaches voting and engagement on behalf of clients with it important to note that Baillie Gifford assesses every company individually. With respect to voting, Baillie Gifford will evaluate proposals on a case-by-case basis, based on what it believes to be in the best long-term interests of the clients, rather than rigidly applying a policy.

In evaluating each proxy, the Governance & Sustainability Team follows the Guidelines, while also considering third party analysis, Baillie Gifford's and its affiliates own research and discussions with company management.

The Governance & Sustainability Team oversees voting analysis and execution in conjunction with the investment managers. Baillie Gifford may elect not to vote on certain proxies. While Baillie Gifford endeavors to vote a fund's shares in all markets, on occasion this may not be possible due to a practice known as share blocking, whereby voting shares would result in Baillie Gifford being prevented from trading for a certain period of time. When voting in these markets, Baillie Gifford assesses the benefits of voting clients' shares against the relevant restrictions. Baillie Gifford may also not vote where it has sold out of a stock following the record date.

Conflicts of Interest

Baillie Gifford recognizes the importance of managing potential conflicts of interest that may exist when voting a proxy solicited by a company with whom the Baillie Gifford Group has a material business or personal relationship. The Governance & Sustainability Team of the Baillie Gifford Group is responsible for monitoring possible material conflicts of interest with respect to proxy voting.

For proxy votes that involve a potential conflict of interest that is not managed in line with the Conflicts of Interest policy, the Governance & Sustainability team report the conflict to the Investment Management Group (IMG) for discussion. The Governance & Sustainability team reports into the IMG which is comprised of several senior Baillie Gifford partners. These individuals review the voting rationale, consider whether business relationships between Baillie Gifford and the company have influenced the proposed vote and decide the course of action to be taken in the best interest of clients.

Jackson Square Proxy Voting Policies and Procedures

Jackson Square has adopted written proxy voting policies and procedures (the “Procedures”) that govern the voting of client securities. The Procedures have been designed to ensure that Jackson Square votes proxies or gives proxy voting advice that is in the best interests of its clients. Jackson Square generally votes proxies with the goal of promoting high levels of corporate governance and adequate disclosure of company policies and practices.

The Procedures include specific proxy voting guidelines that set forth the general principles Jackson Square uses to determine how to vote in client accounts for which it has proxy voting responsibility. The Proxy Committee (the “Committee”), which includes the Chief Compliance Officer, reviews the Procedures to help ensure that they are designed to allow Jackson Square to vote proxies in a manner consistent with the best interests of its clients.

Jackson Square generally expects that its clients will authorize it to vote all proxies relating to shares held in an account over which it has investment discretion. At times, however, certain clients may direct Jackson Square how to vote on a particular proxy for a security held in the client’s account. Where a client has reserved the right to vote proxies, Jackson Square will not participate in voting of proxies.

Jackson Square reserves the right, on occasion, to abstain from voting a proxy or a specific proxy item when it concludes that the cost of voting outweighs the potential benefit or when Jackson Square otherwise believes that voting does not serve its clients’ best interests. Clients should also be aware that voting proxies of issuers in non-U.S. markets may give rise to a number of administrative issues that may prevent Jackson Square from voting proxies for certain companies in these jurisdictions. For example, Jackson Square may receive shareholder meeting notices without enough time to fully consider the proxy or after the cut-off date for voting. Other markets may require Jackson Square to provide local agents with power of attorney prior to implementing its voting instructions.

In order to facilitate the process of voting proxies, Jackson Square has contracted with Institutional Shareholder Services (“ISS”). Most proxies that Jackson Square receives on behalf of clients are voted by ISS in accordance with the proxy voting guidelines established by ISS. In these circumstances, ISS will review the relevant facts and circumstances and research the issue to determine how the proxy should be voted. The Committee and portfolio managers will also review such proxies and assess whether to override the ISS vote recommendations. Although Jackson Square generally votes proxies in accordance with the ISS vote recommendations, Jackson Square reserves the right to vote certain issues counter the ISS guidelines if, after a review of the matter, Jackson Square determines that such a vote would better serve the client’s best interests.

Because the majority of proxies are voted by ISS pursuant to the pre-determined guidelines, it normally is not necessary for Jackson Square to make an actual determination of how to vote a particular proxy, thereby reducing conflicts of interest for Jackson Square during the proxy voting process. Nevertheless, the Procedures include a section to address the possibility of conflicts of interest between Jackson Square and its clients. In the instances where Jackson Square may consider voting a proxy contrary to the ISS recommendation, the Committee will first take steps to identify any possible conflict of interest. If there is no perceived conflict of interest, the Committee will vote the proxy according to its internal procedures. If the members of the Committee have actual knowledge of a conflict of interest, the Committee will normally use another independent third party to do additional research on the particular proxy issue in order to make a recommendation on how to vote the proxy in the best interest of the client. The Committee will then review the proxy voting materials and recommendation provided by ISS and the independent third party to determine how to vote the issue in a manner that the Committee believes is consistent with the Procedures and in the best interests of the client.

After a proxy has been voted for a client, ISS will create a record of the vote. The Committee is responsible for overseeing ISS’s proxy voting activities.

Jennison Associates

Proxy Voting Policy and Procedures

I. Policy

Jennison (or the “Company”) has adopted the following policy and related procedures to guide the voting of proxies in a manner that is consistent with Jennison’s fiduciary duties and the requirements of Rule 206(4)-6 under the Advisers Act.

In the absence of any written delegation or when proxy voting authority has been delegated in writing to Jennison by clients, Jennison will exercise this voting authority in each client's best interests. The Company will not consider its own interests, or those of any affiliates, when voting proxies.

Unless otherwise specified by a client, "best interest" means the client's best economic interest over the long term, as determined by Jennison's portfolio managers and analysts ("Investment Professionals") covering the issuer. Secondary consideration may be given to the public and social value of each issue, but absent specific client instructions, long term economic interests will be the primary basis for voting.

Jennison will disclose information about its proxy voting policies and procedures to clients, and will provide a copy of these Proxy Voting Policies and Procedures upon request. The Company will also inform clients how they may obtain information about the votes cast on their behalf.

II. Procedures

Proxy Voting Guidelines

Jennison has adopted proxy voting guidelines ("Guidelines") with respect to certain recurring issues. When Jennison is responsible for voting proxies, Jennison considers these guidelines except when Jennison accepts custom guidelines.

The Guidelines are reviewed as necessary by the Company's Proxy Voting Committee and Investment Professionals, and are revised when a change is appropriate. The Proxy Team maintains the Guidelines and distributes copies to the Investment Professionals following confirmation of any change. The Guidelines are meant to convey Jennison's general approach to voting decisions on certain issues. Nevertheless, Investment Professionals are responsible for reviewing all proposals related to fundamental strategies individually and making final decisions based on the merits of each voting opportunity.

If an Investment Professional believes that Jennison should vote in a way that is different from the Guidelines, the Proxy Team is notified. In certain circumstances, an Investment Professional may conclude that different clients should vote in different ways, or that it is in the best interests of some or all clients to abstain from voting. The Proxy Team will notify each Investment Professional's supervisor of any Guideline overrides authorized by that Investment Professional.

The Proxy Team is responsible for maintaining Investment Professionals' reasons for deviating from the Guidelines.

Client-Specific Voting Mandates

Any client's specific voting instructions must be communicated or confirmed by the client in writing, either through a provision in the investment advisory contract or through other written correspondence. Such instructions may call for Jennison to vote the client's securities according to the client's own voting guidelines, or may indicate that the Company is not responsible for voting the client's proxies.

The Proxy Team reviews client specific voting instructions and approves operational implementation, and certain instructions may only be implemented on a best efforts basis. The Proxy Team is responsible for communicating such instructions to the third party vendor.

Use of a Third Party Voting Service

Jennison has engaged an independent third party proxy voting vendor that provides research and analytical services, operational implementation and recordkeeping and reporting services. The proxy voting vendor will cast votes in accordance with the Company's Guidelines, unless instructed otherwise by the Investment Professionals.

Identifying and Addressing Potential Material Conflicts of Interest

There may be instances where Jennison's interests conflict materially, or appear to conflict materially, with the interests of clients in connection with a proxy vote (a "Material Conflict"). Examples of potential Material Conflicts include, but are not limited to:

- Jennison managing the pension plan of the issuer.
- Jennison or its affiliates have a material business relationship with the issuer.

- Jennison investment professionals who are related to a person who is senior management or a director at a public company.
- Jennison has a material investment in a security that the investment professional who is responsible for voting that security's proxy also holds the same security personally.

If an Investment Professional or any other employee perceives a Material Conflict, he or she must promptly report the matter to the Chief Compliance Officer.

If the Proxy Voting Committee determines that a Material Conflict is present and if the Investment Professional is recommending a vote that deviates from the Guidelines or there is no specific recommended Guideline vote and decisions are made on a case-by-case basis, then the voting decision must be reviewed and approved by the Investment Professional's supervisor and the Proxy Committee prior to casting the vote.

Jennison will not abstain from voting a proxy for the purpose of avoiding a Material Conflict.

Quantitatively Derived Holdings and the Jennison Managed Accounts

In voting proxies for non-fundamental strategies such as quantitatively derived holdings and Jennison Managed Accounts (i.e. "wrap") where the securities are not held elsewhere in the firm, proxies will be voted utilizing the Guidelines. Additionally, in those circumstances where no specific Guidelines exist, the Company will consider the recommendations of the proxy voting vendor.

International Holdings

Jennison will exercise opportunities to vote on international holdings on a best efforts basis. Such votes will be cast based on the same principles that govern domestic holdings.

In some countries casting a proxy vote can adversely affect a client, such as countries that restrict stock sales around the time of the proxy vote by requiring "share blocking" as part of the voting process. The Investment Professional covering the issuer will weigh the expected benefits of voting proxies on international holdings against any anticipated costs or limitations, such as those associated with share blocking. Jennison may abstain from voting if it anticipates that the costs or limitations associated with voting outweigh the benefits.

Securities Lending

Jennison may be unable to vote proxies when the underlying securities have been lent out pursuant to a client's securities lending program. The Company does not know when securities are on loan and are therefore not available to be voted. In rare circumstances, Investment Professionals may ask the Proxy Team to work with the client's custodian to recall the shares so that Jennison can vote. Efforts to recall loaned securities are not always effective since such requests must be submitted prior to the record date for the upcoming proxy vote; therefore voting shares on loan is on a best efforts basis. In determining whether to call back securities that are out on loan, the Investment Professional will consider whether the benefit to the client in voting the matter outweighs the benefit to the client in keeping the security out on loan.

Disclosure to Advisory Clients

Jennison will provide a copy of these Policies and Procedures and the Guidelines to any client upon request. The Company will also provide any client with information about how Jennison has voted that client's proxies upon request. Any such requests should be forwarded to the Proxy Team, which is responsible for responding, and for documenting the correspondence.

Compliance Reporting for Investment Companies

Upon request, the Proxy Team will provide to each investment company board of directors or trustees for which Jennison acts as sub-adviser reporting needed to satisfy their regulatory and board requirements, including, but not limited to, information required for Form NP-X.

III. Internal Controls

Supervisory Notification

The Proxy Team will notify each Investment Professional's supervisor of any Guideline overrides authorized by that Investment Professional. The supervisor reviews the overrides ensuring that they were made based on clients' best interests, and that they were not influenced by any Material Conflict or other considerations.

The Proxy Voting Committee

The Proxy Voting Committee consists of representatives from Operations, Operational Risk, Legal, and Compliance. It meets at least quarterly, and has the following responsibilities:

- Review potential Material Conflicts and decide whether a material conflict is present, and needs to be addressed according to these policies and procedures.
- Review the Guidelines in consultation with the Investment Professionals and make revisions as appropriate.
- Review these Policies and Procedures annually for accuracy and effectiveness, and recommend and adopt any necessary changes.
- Review all Guideline overrides.
- Review quarterly voting metrics and analysis published by the Proxy Team.
- Review the performance of the proxy voting vendor and determine whether Jennison should continue to retain their services. The Committee will consider the following factors while conducting their review:
 - Accuracy and completeness of research reports, engagement with issuers, potential conflicts of interest and overall administration of Jennison's proxy voting recommendations.

IV. Escalating Concerns

Any concerns about aspects of the policy that lack specific escalation guidance may be reported to the reporting employee's supervisor, the Chief Compliance Officer, Chief Legal Officer, Chief Risk Officer, Chief Ethics Officer, Chief Operating Officer or Chief Executive Officer. Alternatively Jennison has an Ethics Reporting Hotline phone number and email address that enable employees to raise concerns anonymously. Information about the Ethics Reporting Hotline phone number and email address can be found on the Jennison intranet's "Ethics" web page.

V. Discipline and Sanctions

All Jennison employees are responsible for understanding and complying with the policies and procedures outlined in this policy. The procedures described in this policy are intended to ensure that Jennison and its employees act in full compliance with the law. Violations of this policy and related procedures will be communicated to your supervisor and to senior management through Jennison's Compliance Council, and may lead to disciplinary action.

Schroders Proxy Voting Policy Summary

Proxy Voting General Principles

Schroders will evaluate and usually vote for or against all proxy requests relating to securities held in any account managed by Schroders (unless this responsibility has been retained by the client).

Proxies will be treated and evaluated with the same attention and investment skill as the trading of securities in the accounts.

Proxies will be voted in a manner that is deemed most likely to protect and enhance the longer-term value of the security as an asset to the account.

Corporate Governance Committee

The Corporate Governance Committee for the Schroders Group consists of investment professionals and other officers and coordinates with Schroders to ensure compliance with this proxy voting policy. The Committee meets on a periodic basis to review proxies voted, policy guidelines and to examine any issues raised, including a review of any votes cast in connection with controversial issues.

The procedure for evaluating proxy requests is as follows:

The Schroders' Group Corporate Governance Team (the "Team") provides an initial evaluation of the proxy request, seeks advice where necessary, especially from the U.S. small cap and mid cap product heads, and consults with portfolio managers who have invested in the company should a controversial issue arise.

When coordinating proxy-voting decisions, the Team generally adheres to the Group Environmental, Social & Governance Policy (the "Policy"), as revised from time to time. The Policy, which has been approved by the Corporate Governance Committee, sets forth Schroder Group positions on recurring issues and criteria for addressing non-recurring issues. The Corporate Governance Committee exercises oversight to assure that proxies are voted in accordance with the Policy and that any votes inconsistent with the Policy or against management are appropriately documented.

The Team uses Institutional Shareholder Services, Inc. ("ISS") to assist in voting proxies. ISS provides proxy research, voting and vote-reporting services. ISS's primary function is to apprise the Team of shareholder meeting dates of all securities holdings, translate proxy materials received from companies, provide associated research and provide considerations and recommendations for voting on particular proxy proposals. Although Schroders may consider ISS's and others' recommendations on proxy issues, Schroders bears ultimate responsibility for proxy voting decisions.

Schroders may also consider the recommendations and research of other providers, including the National Association of Pension Funds' Voting Issues Service.

Conflicts

From time to time, proxy voting proposals may raise conflicts between the interests of Schroders' clients and the interests of Schroders and/or its employees. Schroders has adopted this policy and procedures to ensure that decisions to vote the proxies are based on the clients' best interests.

For example, conflicts of interest may arise when:

- Proxy votes regarding non-routine matters are solicited by an issuer that, directly or indirectly, has a client relationship with Schroders;
- A proponent of a proxy proposal has a client relationship with Schroders;
- A proponent of a proxy proposal has a business relationship with Schroders;
- Schroders has business relationships with participants in proxy contests, corporate directors or director candidates.

Schroders is responsible for identifying proxy voting proposals that may present a material conflict of interest. If Schroders receives a proxy relating to an issuer that raises a conflict of interest, the Team shall determine whether the conflict is "material" to any specific proposal included within the proxy. Schroders (or the Team on behalf of Schroders) will determine whether a proposal is material as follows:

- **Routine Proxy Proposals:** Proxy proposals that are "routine" shall be presumed not to involve a material conflict of interest unless Schroders has actual knowledge that a routine proposal should be treated as material. For this purpose, "routine" proposals would typically include matters such as uncontested election of directors, meeting formalities, and approval of an annual report/financial statements.
- **Non-Routine Proxy Proposals:** Proxy proposals that are "non-routine" will be presumed to involve a material conflict of interest, unless Schroders determines that neither Schroders nor its personnel have a conflict of interest or the conflict is unrelated to the proposal in question. For this purpose, "non-routine" proposals would typically include any contested matter, including a contested election of directors, a merger or sale of substantial assets, a change in the

articles of incorporation that materially affects the rights of shareholders, and compensation matters for management (e.g., stock, option plans, retirement plans, profit-sharing or other special remuneration plans). If Schroders determines that there is, or may be perceived to be, a conflict of interest when voting a proxy, Schroders will address matters involving such conflicts of interest as follows:

A. If a proposal is addressed by the Policy, Schroders will vote in accordance with such Policy;

B. If Schroders believes it is in the best interests of clients to depart from the Policy, Schroders will be subject to the requirements of C or D below, as applicable;

C. If the proxy proposal is (1) not addressed by the Policy or (2) requires a case-by-case determination, Schroders may vote such proxy as it determines to be in the best interest of clients, without taking any action described in D below, provided that such vote would be against Schroders' own interest in the matter (i.e., against the perceived or actual conflict). The rationale of such vote will be memorialized in writing; and

D. If the proxy proposal is (1) not addressed by the Policy or (2) requires a case-by-case determination, and Schroders believes it should vote in a way that may also benefit, or be perceived to benefit, its own interest, then Schroders must take one of the following actions in voting such proxy: (a) vote in accordance with ISS' recommendation; (b) in exceptional cases, inform the client(s) of the conflict of interest and obtain consent to vote the proxy as recommended by Schroders; or (c) obtain approval of the decision from the Chief Compliance Officer and the Chief Investment Officer (the rationale of such vote will be memorialized in writing). Where the director of a company is also a director of Schroders plc, Schroders will vote in accordance with ISS' recommendation.

Voting Coverage

Schroders recognizes its responsibility to make considered use of voting rights. The overriding principle governing our approach to voting is to act in line with its fiduciary responsibilities in what we deem to be the interests of its clients.

Schroders normally hopes to support company management; however, it will withhold support or oppose management if it believes that it is in the best interests of its clients to do so.

Schroders votes on a variety of resolutions; however, the majority of resolutions target specific corporate governance issues which are required under local stock exchange listing requirements, including but not limited to: approval of directors, accepting reports and accounts, approval of incentive plans, capital allocation, reorganizations and mergers. Schroders does vote on both shareholder and management resolutions.

Schroders Corporate Governance specialists assess resolutions, applying its voting policy and guidelines (as outlined in its Environmental, Social and Governance Policy) to each agenda item. These specialists draw on external research, such as the Investment Association's Institutional Voting Information Services, the Institutional Shareholder Services (ISS), and public reporting.

Schroders' own research is also integral to our process and this will be conducted by both our investment and ESG analysts. Corporate Governance specialists will consult with the relevant analysts and portfolio managers to seek their view and better understand the corporate context. The final decision will reflect what investors and Corporate Governance specialists believe to be in the best long-term interest of their client. When voting, where there is insufficient information with which to make a voting decision Schroders may not vote.

In order to maintain the necessary flexibility to meet client needs, local offices of Schroders may determine a voting policy regarding the securities for which they are responsible, subject to agreement with clients as appropriate, and/or addressing local market issues. Both Japan and Australia have these.

Schroders UK Stewardship Code Statement outlines its approach in this area in more detail for all of its international holdings and is publicly available.

Wellington Management Global Proxy Policy and Procedures

Wellington Management has adopted and implemented policies and procedures that it believes are reasonably designed to ensure that proxies are voted in the best interests of clients for whom it exercises proxy-voting discretion.

Wellington Management's Proxy Voting Guidelines (the "Guidelines") set forth broad guidelines and positions on common proxy issues that Wellington Management uses in voting on proxies. In addition, Wellington Management also considers each proposal in the context of the issuer, industry and country or countries in which the issuer's

business is conducted. The Guidelines are not rigid rules and the merits of a particular proposal may cause Wellington Management to enter a vote that differs from the Guidelines. Wellington Management seeks to vote all proxies with the goal of increasing long-term client value and, while client investment strategies may differ, applying this common set of guidelines is consistent with the investment objective of achieving positive long-term investment performance for each client.

Statement of Policy

Wellington Management:

- 1) Votes client proxies for which clients have affirmatively delegated proxy-voting authority, in writing, unless it has arranged in advance with the client to limit the circumstances in which it would exercise voting authority or determines that it is in the best interest of one or more clients to refrain from voting a given proxy.
- 2) Votes all proxies in the best interests of the client for whom it is voting.
- 3) Identifies and resolves all material proxy-related conflicts of interest between the firm and its clients in the best interests of the client.

Responsibility and Oversight

The Investment Research Group (“Investment Research”) monitors regulatory requirements with respect to proxy voting and works with the firm’s Legal and Compliance Group and the Investment Stewardship Committee to develop practices that implement those requirements. Investment Research also acts as a resource for portfolio managers and research analysts on proxy matters as needed. Day-to-day administration of the proxy voting process is the responsibility of Investment Research. The Investment Stewardship Committee is responsible for oversight of the implementation of the Global Proxy Policy and Procedures, review and approval of the Guidelines, identification and resolution of conflicts of interest, and for providing advice and guidance on specific proxy votes for individual issuers. The Investment Stewardship Committee reviews the Global Proxy Policy and Procedures annually.

Procedures

Use of Third-Party Voting Agent

Wellington Management uses the services of a third-party voting agent for research, voting recommendations, and to manage the administrative aspects of proxy voting. The voting agent processes proxies for client accounts, casts votes based on the Guidelines and maintains records of proxies voted. Wellington Management complements the research received by its primary voting agent with research from another voting agent.

Receipt of Proxy

If a client requests that Wellington Management votes proxies on its behalf, the client must instruct its custodian bank to deliver all relevant voting material to Wellington Management or its voting agent.

Reconciliation

Each public security proxy received by electronic means is matched to the securities eligible to be voted and a reminder is sent to any custodian or trustee that has not forwarded the proxies as due. This reconciliation is performed at the ballot level. Although proxies received for private securities, as well as those received in non- electronic format, are voted as received, Wellington Management is not able to reconcile these ballots, nor does it notify custodians of non-receipt.

Research

In addition to proprietary investment research undertaken by Wellington Management investment professionals, Investment Research conducts proxy research internally, and uses the resources of a number of external sources including third-party voting agents to keep abreast of developments in corporate governance and of current practices of specific companies.

Proxy Voting

Following the reconciliation process, each proxy is compared against the Guidelines, and handled as follows:

- Generally, issues for which explicit proxy voting guidance is provided in the Guidelines (i.e., “For”; “Against”; “Abstain”) are voted in accordance with the Guidelines.
- Issues identified as “case-by-case” in the Guidelines are further reviewed by Investment Research. In certain circumstances, further input is needed, so the issues are forwarded to the relevant research analyst and/or portfolio manager(s) for their input.
- Absent a material conflict of interest, the portfolio manager has the authority to decide the final vote. Different portfolio managers holding the same securities may arrive at different voting conclusions for their clients’ proxies.

Wellington Management reviews a subset of the voting record to ensure that proxies are voted in accordance with these *Global Proxy Policy and Procedures* and the Guidelines; and ensures that documentation and reports, for clients and for internal purposes, relating to the voting of proxies are promptly and properly prepared and disseminated.

Material Conflict of Interest Identification and Resolution Processes

Wellington Management’s broadly diversified client base and functional lines of responsibility serve to minimize the number of, but not prevent, material conflicts of interest it faces in voting proxies. Annually, the Investment Stewardship Committee sets standards for identifying material conflicts based on client, vendor, and lender relationships, and publishes those standards to individuals involved in the proxy voting process. In addition, the Investment Stewardship Committee encourages all personnel to contact Investment Research about apparent conflicts of interest, even if the apparent conflict does not meet the published materiality criteria. Apparent conflicts are reviewed by designated members of the Investment Stewardship Committee to determine if there is a conflict and if so whether the conflict is material.

If a proxy is identified as presenting a material conflict of interest, the matter must be reviewed by designated members of the Investment Stewardship Committee, who will resolve the conflict and direct the vote. In certain circumstances, the designated members may determine that the full Investment Stewardship Committee should convene.

Other Considerations

In certain instances, Wellington Management may be unable to vote or may determine not to vote a proxy on behalf of one or more clients. While not exhaustive, the following are potential instances in which a proxy vote might not be entered.

Securities Lending

In general, Wellington Management does not know when securities have been lent out pursuant to a client’s securities lending program and are therefore unavailable to be voted. Efforts to recall loaned securities are not always effective, but, in rare circumstances, Wellington Management may determine voting would outweigh the benefit to the client resulting from use of securities for lending and recommend that a client attempt to have its custodian recall the security to permit voting of related proxies.

Share Blocking and Re-registration

Certain countries impose trading restrictions or requirements regarding re-registration of securities held in omnibus accounts in order for shareholders to vote a proxy. The potential impact of such requirements is evaluated when determining whether to vote such proxies.

Lack of Adequate Information, Untimely Receipt of Proxy Materials, or Excessive Costs

Wellington Management may abstain from voting a proxy when the proxy statement or other available information is inadequate to allow for an informed vote, when the proxy materials are not delivered in a timely fashion or when, in Wellington Management’s judgment, the costs exceed the expected benefits to clients (such as when powers of attorney or consularization are required).

Additional Information

Wellington Management maintains records related to proxies pursuant to Rule 204-2 of the Investment Advisers Act of 1940 (the "Advisers Act"), the Employee Retirement Income Security Act of 1974, as amended ("ERISA"), and other applicable laws. In addition, Wellington Management discloses annually how it has exercised its voting rights for significant votes, as required by the EU Shareholder Rights Directive II ("SRD II").

Wellington Management provides clients with a copy of its Global Proxy Policy and Procedures, including the Guidelines, upon written request. In addition, Wellington Management will provide specific client information relating to proxy voting to a client upon written request.

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