

Annual Report | December 31, 2018

Vanguard Total Stock Market Index Fund

See the inside front cover for important information about access to your fund's annual and semiannual shareholder reports.

Important information about access to shareholder reports

Beginning on January 1, 2021, as permitted by regulations adopted by the Securities and Exchange Commission, paper copies of your fund's annual and semiannual shareholder reports will no longer be sent to you by mail, unless you specifically request them. Instead, you will be notified by mail each time a report is posted on the website and will be provided with a link to access the report.

If you have already elected to receive shareholder reports electronically, you will not be affected by this change and do not need to take any action. You may elect to receive shareholder reports and other communications from the fund electronically by contacting your financial intermediary (such as a broker-dealer or bank) or, if you invest directly with the fund, by calling Vanguard at one of the phone numbers on the back cover of this report or by logging on to vanguard.com.

You may elect to receive paper copies of all future shareholder reports free of charge. If you invest through a financial intermediary, you can contact the intermediary to request that you continue to receive paper copies. If you invest directly with the fund, you can call Vanguard at one of the phone numbers on the back cover of this report or log on to vanguard.com. Your election to receive paper copies will apply to all the funds you hold through an intermediary or directly with Vanguard.

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Please note: The opinions expressed in this report are just that—informed opinions. They should not be considered promises or advice. Also, please keep in mind that the information and opinions cover the period through the date on the front of this report. Of course, the risks of investing in your fund are spelled out in the prospectus.

A Note From Our CEO



Tim Buckley
Chairman and Chief Executive Officer

Dear Shareholder.

Over the years, I've found that prudent investors exhibit a common trait: discipline. No matter how the markets move or what new investing fad hits the headlines, those who stay focused on their goals and tune out the noise are set up for long-term success.

The prime gateway to investing is saving, and you don't usually become a saver without a healthy dose of discipline. Savers make the decision to sock away part of their income, which means spending less and delaying gratification, no matter how difficult that may be.

Of course, disciplined investing extends beyond diligent saving. The financial markets, in the short term especially, are unpredictable; I have yet to meet the investor who can time them perfectly. It takes discipline to resist the urge to go all-in when markets are frothy or to retreat when things look bleak.

Staying put with your investments is one strategy for handling volatility. Another, rebalancing, requires even more discipline because it means steering your money away from strong performers and toward poorer performers.

Patience—a form of discipline—is also the friend of long-term investors. Higher returns are the potential reward for weathering the market's turbulence and uncertainty.

It's important to be prepared for that turbulence, whenever it appears. Don't panic. Don't chase returns or look for answers outside the asset classes you trust. And be sure to rebalance periodically, even when there's turmoil.

Whether you're a master of self-control, get a boost from technology, or work with a professional advisor, know that discipline is necessary to get the most out of your investment portfolio. And know that Vanguard is with you for the entire ride.

Thank you for your continued loyalty.

Sincerely,

Mortimer J. Buckley Chairman and Chief Executive Officer January 17, 2019

Your Fund's Performance at a Glance

- The broad U.S. stock market finished 2018 with about a –5% return—its first negative calendar-year result since 2008—as stocks declined sharply over the fourth quarter. Growth stocks outperformed value, while large-capitalization stocks led midand small-caps.
- Reflecting this environment, Vanguard Total Stock Market Index Fund returned –5.26% for Investor Shares and –5.17% for Admiral Shares for the 12 months ended December 31, 2018. The fund, which offers investors exposure to every segment, size, and style of the U.S. equity market, closely tracked its target index, the CRSP US Total Market Index, and outpaced its multicapitalization core fund peers.
- Seven of the fund's ten sectors recorded negative returns, with financials and industrials detracting the most from results. Health care was the top contributor.
- Please note that in November, Vanguard lowered the investment minimum for the fund's Admiral Shares from \$10,000 to \$3,000.

Market Barometer

	Average Annual Total Returns Periods Ended December 31, 2018		
	One Year	Three Years	Five Years
Stocks			
Russell 1000 Index (Large-caps)	-4.78%	9.09%	8.21%
Russell 2000 Index (Small-caps)	-11.01	7.36	4.41
Russell 3000 Index (Broad U.S. market)	-5.24	8.97	7.91
FTSE All-World ex US Index (International)	-14.13	4.58	1.05
Bonds			
Bloomberg Barclays U.S. Aggregate Bond Index (Broad taxable market)	0.01%	2.06%	2.52%
Bloomberg Barclays Municipal Bond Index (Broad tax-exempt market)	1.28	2.30	3.82
FTSE Three-Month U.S. Treasury Bill Index	1.86	0.98	0.59
CPI			
Consumer Price Index	1.91%	2.03%	1.51%

About Your Fund's Expenses

As a shareholder of the fund, you incur ongoing costs, which include costs for portfolio management, administrative services, and shareholder reports (like this one), among others. Operating expenses, which are deducted from a fund's gross income, directly reduce the investment return of the fund.

A fund's expenses are expressed as a percentage of its average net assets. This figure is known as the expense ratio. The following examples are intended to help you understand the ongoing costs (in dollars) of investing in your fund and to compare these costs with those of other mutual funds. The examples are based on an investment of \$1,000 made at the beginning of the period shown and held for the entire period.

The accompanying table illustrates your fund's costs in two ways:

• Based on actual fund return. This section helps you to estimate the actual expenses that you paid over the period. The "Ending Account Value" shown is derived from the fund's actual return, and the third column shows the dollar amount that would have been paid by an investor who started with \$1,000 in the fund. You may use the information here, together with the amount you invested, to estimate the expenses that you paid over the period.

To do so, simply divide your account value by \$1,000 (for example, an \$8,600 account value divided by \$1,000 = 8.6), then multiply the result by the number given for your fund under the heading "Expenses Paid During Period."

• Based on hypothetical 5% yearly return. This section is intended to help you compare your fund's costs with those of other mutual funds. It assumes that the fund had a yearly return of 5% before expenses, but that the expense ratio is unchanged. In this case—because the return used is not the fund's actual return—the results do not apply to your investment. The example is useful in making comparisons because the Securities and Exchange Commission requires all mutual funds to calculate expenses based on a 5% return. You can assess your fund's costs by comparing this hypothetical example with the hypothetical examples that appear in shareholder reports of other funds.

Note that the expenses shown in the table are meant to highlight and help you compare *ongoing* costs only and do not reflect transaction costs incurred by the fund for buying and selling securities. Further, the expenses do not include any purchase, redemption, or account service fees described in the fund prospectus. If such fees were applied to your account, your costs would be higher. Your fund does not carry a "sales load."

The calculations assume no shares were bought or sold during the period. Your actual costs may have been higher or lower, depending on the amount of your investment and the timing of any purchases or redemptions.

You can find more information about the fund's expenses, including annual expense ratios, in the Financial Statements section of this report. For additional information on operating expenses and other shareholder costs, please refer to your fund's current prospectus.

Six Months Ended December 31, 2018

Total Stock Market Index Fund	Beginning Account Value 6/30/2018	Ending Account Value 12/31/2018	Expenses Paid During Period
Based on Actual Fund Return			
Investor Shares	\$1,000.00	\$917.80	\$0.68
ETF Shares	1,000.00	918.45	0.10
Admiral™ Shares	1,000.00	918.17	0.19
Institutional Shares	1,000.00	918.24	0.15
Institutional Plus Shares	1,000.00	918.28	0.10
Institutional Select Shares	1,000.00	918.31	0.05
Based on Hypothetical 5% Yearly Return			
Investor Shares	\$1,000.00	\$1,024.50	\$0.71
ETF Shares	1,000.00	1,025.10	0.10
Admiral Shares	1,000.00	1,025.00	0.20
Institutional Shares	1,000.00	1,025.05	0.15
Institutional Plus Shares	1,000.00	1,025.10	0.10
Institutional Select Shares	1,000.00	1,025.16	0.05

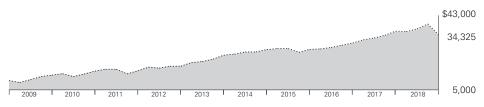
The calculations are based on expenses incurred in the most recent six-month period. The fund's annualized six-month expense ratios for that period are 0.14% for Investor Shares, 0.02% for ETF Shares, 0.04% for Admiral Shares, 0.03% for Institutional Shares, 0.02% for Institutional Plus Shares, and 0.01% for Institutional Select Shares. The dollar amounts shown as "Expenses Paid" are equal to the annualized expense ratio multiplied by the average account value over the period, multiplied by the number of days in the most recent six-month period, then divided by the number of days in the most recent 12-month period (184/365).

Total Stock Market Index Fund

Performance Summary

All of the returns in this report represent past performance, which is not a guarantee of future results that may be achieved by the fund. (Current performance may be lower or higher than the performance data cited. For performance data current to the most recent month-end, visit our website at vanguard.com/performance.) Note, too, that both investment returns and principal value can fluctuate widely, so an investor's shares, when sold, could be worth more or less than their original cost. The returns shown do not reflect taxes that a shareholder would pay on fund distributions or on the sale of fund shares.

Cumulative Performance: December 31, 2008, Through December 31, 2018 Initial Investment of \$10.000



Average Annual Total Returns Periods Ended December 31, 2018

-	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Investor Shares	-5.26%	7.79%	13.13%	\$34,325
Spliced Total Stock Market Index	-5.17	7.92	13.26	34,736

Spliced Total Stock Market Index: Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through June 2, 2013; and CRSP US Total Market Index thereafter.

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund ETF Shares Net Asset Value	-5.13%	7.92%	13.26%	\$34,723
Spliced Total Stock Market Index	-5.17	7.92	13.26	34,736

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Admiral Shares	-5.17%	7.90%	13.25%	\$34,709
Spliced Total Stock Market Index	-5.17	7.92	13.26	34,736

Average Annual Total Return	าร
Periods Ended December 31, 201	8

	Periods Ended December 31, 2018			
_	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Total Stock Market Index Fund Institutional Shares	-5.16%	7.91%	13.26%	\$17,361,590
Spliced Total Stock Market Index	-5.17	7.92	13.26	17,368,142

	One Year	Since Inception (4/28/2015)	Final Value of a \$100,000,000 Investment
Total Stock Market Index Fund Institutional			
Plus Shares	-5.15%	6.33%	\$125,298,030
CRSP US Total Market Index	-5.17	6.31	125,232,230

[&]quot;Since Inception" performance is calculated from the Institutional Plus Shares' inception date for both the fund and its comparative standards.

	One Year	Since Inception (6/27/2016)	Final Value of a \$5,000,000,000 Investment
Total Stock Market Index Fund Institutional Select Shares	-5.14%	11.47%	\$6,567,400,000
CRSP US Total Market Index	-5.17	11.45	6,563,911,000

[&]quot;Since Inception" performance is calculated from the Institutional Select Shares' inception date for both the fund and its comparative standards

Cumulative Returns of ETF Shares: December 31, 2008, Through December 31, 2018

	One Year	Five Years	Ten Years
Total Stock Market Index Fund ETF Shares Market Price	-5.20%	46.33%	246.82%
Total Stock Market Index Fund ETF Shares Net Asset Value	-5.13	46.36	247.23
Spliced Total Stock Market Index	-5.17	46.37	247.36

For the ETF Shares, the market price is determined by the midpoint of the bid-offer spread as of the closing time of the New York Stock Exchange (generally 4 p.m., Eastern time). The net asset value is also determined as of the NYSE closing time. For more information about how the ETF Shares' market prices have compared with their net asset value, visit vanguard.com, select your ETF, and then select the Price and Performance tab. The ETF premium/discount analysis there shows the percentages of days on which the ETF Shares' market price was above or below the NAV.

Sector Diversification

As of December 31, 2018

Basic Materials	2.5%
Consumer Goods	7.9
Consumer Services	13.6
Financials	19.5
Health Care	13.9
Industrials	12.9
Oil & Gas	5.0
Technology	19.4
Telecommunications	2.0
Utilities	3.3

The table reflects the fund's equity exposure, based on its investments in stocks and stock index futures. Any holdings in short-term reserves are excluded. Sector categories are based on the Industry Classification Benchmark ("ICB"), except for the "Other" category (if applicable), which includes securities that have not been provided an ICB classification as of the effective reporting period.

Financial Statements

Statement of Net Assets—Investments Summary

As of December 31, 2018

This Statement summarizes the fund's holdings by asset type. Details are reported for each of the fund's 50 largest individual holdings and for investments that, in total for any issuer, represent more than 1% of the fund's net assets. The total value of smaller holdings is reported as a single amount within each category.

The fund reports a complete list of its holdings in regulatory filings four times in each fiscal year, at the quarter-ends. For the second and fourth fiscal quarters, the complete listing of the fund's holdings is available electronically on vanguard.com and on the Securities and Exchange Commission's website (sec.gov), or you can have it mailed to you without charge by calling 800-662-7447. For the first and third fiscal quarters, the fund files the lists with the SEC on Form N-Q. Shareholders can look up the fund's Forms N-Q on the SEC's website.

	Shares	Market Value* (\$000)	Percentage of Net Assets
Common Stocks	0.10.00	(\$000)	7,00010
Basic Materials			
DowDuPont Inc.	61,298,118	3,278,223	0.5%
Basic Materials—Other †		13,214,018	1.9%
		16,492,241	2.4%
Consumer Goods			
Procter & Gamble Co.	66,548,734	6,117,160	0.9%
Coca-Cola Co.	102,283,588	4,843,128	0.7%
PepsiCo Inc.	37,706,704	4,165,837	0.6%
Philip Morris International Inc.	41,505,319	2,770,895	0.4%
NIKE Inc. Class B	34,010,881	2,521,567	0.4%
Consumer Goods—Other †		32,620,974	4.9%
		53,039,561	7.9%
Consumer Services			
* Amazon.com Inc.	11,103,329	16,676,867	2.5%
Home Depot Inc.	30,177,998	5,185,184	0.8%
Walt Disney Co.	37,777,614	4,142,315	0.6%
Comcast Corp. Class A	121,287,849	4,129,851	0.6%
McDonald's Corp.	20,593,963	3,656,870	0.6%
Walmart Inc.	39,123,470	3,644,351	0.5%
* Netflix Inc.	11,067,658	2,962,369	0.4%
§ Consumer Services—Other †		50,312,374	7.5%
		90,710,181	13.5%
Financials			
 Berkshire Hathaway Inc. Class B 	50,508,373	10,312,800	1.5%
JPMorgan Chase & Co.	88,872,039	8,675,688	1.3%
Visa Inc. Class A	47,014,765	6,203,128	0.9%
Bank of America Corp.	236,065,255	5,816,648	0.9%
Wells Fargo & Co.	113,207,525	5,216,603	0.8%

		Market Value*	Percentage of Net
	Shares	(\$000)	Assets
Mastercard Inc. Class A	24,548,873	4,631,145	0.7%
Citigroup Inc.	65,271,677	3,398,044	0.5%
* Berkshire Hathaway Inc. Class A	1,034	316,404	0.0%
§ Financials—Other †		85,349,952	12.7%
		129,920,412	19.3%
Health Care Johnson & Johnson	71,605,522	9,240,693	1.4%
Pfizer Inc.	154,420,822	6,740,469	1.4%
UnitedHealth Group Inc.	25,701,378	6,402,727	1.0%
Merck & Co. Inc.	69,465,748	5,307,878	0.8%
AbbVie Inc.	40,166,516	3,702,951	0.5%
Abbott Laboratories	46,919,307	3,393,673	0.5%
Amgen Inc.	17,024,650	3,314,189	0.5%
Medtronic plc	35,956,531	3,270,606	0.5%
Eli Lilly & Co.	25,470,396	2,947,434	0.4%
Health Care—Other †	20,170,000	48,676,076	7.2%
		92,996,696	13.8%
Industrials			
Boeing Co.	14,412,662	4,648,083	0.7%
3M Co.	15,557,202	2,964,269	0.4%
Union Pacific Corp.	19,683,934	2,720,910	0.4%
Honeywell International Inc.	19,774,557	2,612,614	0.4%
* PayPal Holdings Inc.	29,900,604	2,514,342	0.4%
§ Industrials—Other †		70,976,534	10.6%
Oil & Gas		86,436,752	12.9%
Exxon Mobil Corp.	113,056,417	7,709,317	1.2%
Chevron Corp.	51,040,764	5,552,725	0.8%
§ Oil & Gas—Other †		20,312,180	3.0%
		33,574,222	5.0%
510.1		5.004	0.00/
§,1Other †		5,224	0.0%
Technology			
Microsoft Corp.	206,471,453	20,971,305	3.1%
Apple Inc.	114,093,756	17,997,149	2.7%
* Facebook Inc. Class A	64,181,484	8,413,551	1.3%
* Alphabet Inc. Class A	7,987,157	8,346,260	1.2%
* Alphabet Inc. Class C	7,938,287	8,220,969	1.2%
Intel Corp.	121,924,450	5,721,914	0.8%
Cisco Systems Inc.	120,089,777	5,203,490	0.8%
Oracle Corp.	70,840,246	3,198,437	0.5%
* Adobe Inc.	13,040,518	2,950,287	0.4%
International Business Machines Corp.	24,277,551	2,759,629	0.4%
Broadcom Inc.	10,493,014	2,668,164	0.4%
* salesforce.com Inc.	19,415,586	2,659,353	0.4%
Technology—Other †		40,746,347	6.1%
		129,856,855	19.3%

			Market Value*	Percentage of Net
		Shares	(\$000)	Assets
Telecommunications				
Verizon Communications Inc.		110,381,847	6,205,667	0.9%
AT&T Inc.		194,426,250	5,548,925	0.8%
Telecommunications—Other †			1,564,998	0.3%
			13,319,590	2.0%
Utilities †			21,923,009	3.3%
Total Common Stocks (Cost \$473,160,255)			668,274,743	99.4%2
	Coupon			
Temporary Cash Investments				
Money Market Fund				
3.4 Vanguard Market Liquidity Fund	2.530%	56,919,051	5,691,905	0.9%
⁵ U.S. Government and Agency Obligations †			263,813	0.0%
Total Temporary Cash Investments (Cost \$5,955,110)			5,955,718	0.9%2
⁶ Total Investments (Cost \$479,115,365)			674,230,461	100.3%
			Δ	
			Amount (\$000)	
Other Assets and Liabilities				
Other Assets			00.044	
Investment in Vanguard			38,011	
Receivables for Investment Securities Sold Receivables for Accrued Income			115,408	
Receivables for Capital Shares Issued			816,954 1,587,383	
Variation Margin Receivable—Futures Contracts			30,362	
Other Assets ⁷			53,289	
Total Other Assets			2,641,407	0.5%
Liabilities				
Payables for Investment Securities Purchased			(1,230,335)	
Collateral for Securities on Loan			(2,633,559)	
Payables for Capital Shares Redeemed			(639,991)	
Payables to Vanguard			(169,788)	
Variation Margin Payable—Futures Contracts			(320)	
Unrealized Depreciation—Swap Contracts			(2,211)	
Total Liabilities			(4,676,204)	(0.8%)
Net Assets			672,195,664	100.0%
At December 31, 2018, net assets consisted of:				
				Amount (\$000)
Paid-in Capital Total Distributable Earnings (Loss)				478,179,649 194,016,015
Net Assets				672,195,664
וופנ הפפרפ				072,133,004

	Amount (\$000)
Investor Shares—Net Assets	
Applicable to 1,953,536,865 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	121,265,869
Net Asset Value Per Share—Investor Shares	\$62.08
ETF Shares—Net Assets	
Applicable to 743,263,419 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	94,809,421
Net Asset Value Per Share–ETF Shares	\$127.56
Admiral Shares—Net Assets	
Applicable to 2,981,054,239 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	185,101,915
Net Asset Value Per Share—Admiral Shares	\$62.09
Institutional Shares—Net Assets	
Applicable to 1,853,585,521 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	115,115,348
Net Asset Value Per Share—Institutional Shares	\$62.10
Institutional Plus Shares—Net Assets	
Applicable to 1,164,655,630 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	135,641,458
Net Asset Value Per Share—Institutional Plus Shares	\$116.46
Institutional Select Shares—Net Assets	
Applicable to 165,800,987 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	20,261,653
Net Asset Value Per Share—Institutional Select Shares	\$122.20

- · See Note A in Notes to Financial Statements.
- * Non-income-producing security.
- † Represents the aggregate value, by category, of securities that are not among the 50 largest holdings and, in total for any issuer, represent 1% or less of net assets.
- § Security value determined using significant unobservable inputs.
- 1 "Other" represents securities that are not classified by the fund's benchmark index.
- 2 The fund invests a portion of its cash reserves in equity markets through the use of index futures contracts and swap contracts. After giving effect to futures and swap investments, the fund's effective common stock and temporary cash investment positions represent 100.0% and 0.3%, respectively, of net assets.
- 3 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 4 Includes \$2.633.559.000 of collateral received for securities on loan.
- 5 Securities with a value of \$186,579,000 have been segregated as initial margin for open futures contracts.
- 6 The total value of securities on loan is \$2,480,929,000.
- 7 Cash with a value of \$2,650,000 has been segregated as collateral for open over-the-counter swap contracts.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts				
				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini S&P 500 Index	March 2019	29,625	3,710,828	(106,471)
E-mini Russell 2000 Index	March 2019	1,914	129,099	(6,420)
E-mini S&P Mid-Cap 400 Index	March 2019	240	39,893	(1,764)
				(114,655)

Total Return Swaps

Reference Entity	Termination Date	Counterparty	Notional Amount (\$000)	Floating Interest Rate Received (Paid) ¹	Value and Unrealized Appreciation (Depreciation) (\$000)
SLM Corp.	2/04/2019	GSI	35.318	2.870%	(823)
	2/04/2019	GSI	,	3.270%	
VICI Properties Inc.			29,610		(1,041)
VICI Properties Inc.	2/04/2019	GSI	9,870	3.270%	(347)
					(2,211)

GSI—Goldman Sachs International.

¹ Payment received/paid monthly.

Statement of Operations

Year Ended December 31, 2018 (\$000)Investment Income Income Dividends 13.933.848 Interest1 54.283 Securities Lending-Net 126,669 Total Income 14.114.800 Expenses The Vanguard Group—Note B Investment Advisory Services 24.218 Management and Administrative—Investor Shares 158.387 Management and Administrative—ETF Shares 21.276 Management and Administrative—Admiral Shares 60.985 Management and Administrative—Institutional Shares 27.571 Management and Administrative—Institutional Plus Shares 20.989 Management and Administrative—Institutional Select Shares 1.082 Marketing and Distribution—Investor Shares 17.741 3,627 Marketing and Distribution—ETF Shares Marketing and Distribution—Admiral Shares 10.293 Marketing and Distribution—Institutional Shares 2.877 Marketing and Distribution—Institutional Plus Shares 1.500 Marketing and Distribution—Institutional Select Shares 1 Custodian Fees 2 430 Auditing Fees 421 Shareholders' Reports-Investor Shares 1 252 Shareholders' Reports-ETF Shares 1.097 Shareholders' Reports—Admiral Shares 511 Shareholders' Reports—Institutional Shares 902 Shareholders' Reports—Institutional Plus Shares 31 Shareholders' Reports—Institutional Select Shares Trustees' Fees and Expenses 437 Total Expenses 357.629 Net Investment Income 13.757.171 Realized Net Gain (Loss) Investment Securities Sold1,2 6.732.944 **Futures Contracts** (205.348)Swap Contracts (16.547)Realized Net Gain (Loss) 6,511,049

Statement of Operations (continued)

	Year Ended
	December 31, 2018
	(\$000)
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ¹	(56,813,515)
Futures Contracts	(113,904)
Swap Contracts	(1,888)
Change in Unrealized Appreciation (Depreciation)	(56,929,307)
Net Increase (Decrease) in Net Assets Resulting from Operations	(36,661,087)

¹ Interest income, realized net gain (loss), and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$51,265,000, (\$296,000), and \$364,000, respectively. Purchases and sales are for temporary cash investment purposes.

² Includes \$6,485,550,000 of net gain (loss) resulting from in-kind redemptions; such gain (loss) is not taxable to the fund.

Statement of Changes in Net Assets

	Year Ended December 3		
	2018 (\$000)	2017 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	13,757,171	10,874,077	
Realized Net Gain (Loss)	6,511,049	4,548,286	
Change in Unrealized Appreciation (Depreciation)	(56,929,307)	97,128,679	
Net Increase (Decrease) in Net Assets Resulting from Operations	(36,661,087)	112,551,042	
Distributions			
Net Investment Income			
Investor Shares	(2,268,803)	(2,050,561)	
ETF Shares	(1,838,334)	(1,517,300)	
Admiral Shares	(3,685,244)	(3,194,026)	
Institutional Shares	(2,243,070)	(1,832,069)	
Institutional Plus Shares	(2,615,192)	(2,069,350)	
Institutional Select Shares	(351,965)	(220,025)	
Realized Capital Gain			
Investor Shares	_	_	
ETF Shares	_	_	
Admiral Shares	_	_	
Institutional Shares	_	_	
Institutional Plus Shares	_	_	
Institutional Select Shares	_	_	
Total Distributions	(13,002,608)	(10,883,331)	
Capital Share Transactions			
Investor Shares	2,806,888	2,531,635	
ETF Shares	10,133,992	7,977,735	
Admiral Shares	8,992,303	8,806,511	
Institutional Shares	9,953,282	17,246,738	
Institutional Plus Shares	19,272,078	22,241,001	
Institutional Select Shares	8,123,645	3,653,908	
Net Increase (Decrease) from Capital Share Transactions	59,282,188	62,457,528	
Total Increase (Decrease)	9,618,493	164,125,239	
Net Assets			
Beginning of Period	662,577,171	498,451,932	
End of Period	672,195,664	662,577,171	

Investor Shares

For a Share Outstanding			Year Ended December 31			
Throughout Each Period	2018	2017	2016	2015	2014	
Net Asset Value, Beginning of Period	\$66.70	\$56.06	\$50.78	\$51.58	\$46.67	
Investment Operations						
Net Investment Income	1.2751	1.086	1.022	.954	.854	
Net Realized and Unrealized Gain (Loss) on Investments	(4.703)	10.630	5.282	(.807)	4.907	
Total from Investment Operations	(3.428)	11.716	6.304	.147	5.761	
Distributions						
Dividends from Net Investment Income	(1.192)	(1.076)	(1.024)	(.947)	(.851)	
Distributions from Realized Capital Gains	_	_	_	_	_	
Total Distributions	(1.192)	(1.076)	(1.024)	(.947)	(.851)	
Net Asset Value, End of Period	\$62.08	\$66.70	\$56.06	\$50.78	\$51.58	
Total Return ²	-5.26%	21.05%	12.53%	0.29%	12.43%	
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$121,266	\$126,766	\$103,932	\$96,323	\$117,966	
Ratio of Total Expenses to Average Net Assets	0.14%	0.14%	0.15%	0.16%	0.17%	
Ratio of Net Investment Income to Average Net Assets	1.86%	1.77%	1.98%	1.85%	1.77%	
Portfolio Turnover Rate ³	3%	3%	4%	3%	3%	

¹ Calculated based on average shares outstanding.

² Total returns do not include account service fees that may have applied in the periods shown. Fund prospectuses provide information about any applicable account service fees.

³ Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

ETF Shares

For a Share Outstanding	Year Ended December 31,				mber 31,
Throughout Each Period	2018	2017	2016	2015	2014
Net Asset Value, Beginning of Period	\$137.06	\$115.21	\$104.34	\$106.00	\$95.91
Investment Operations					
Net Investment Income	2.7811	2.3611	2.214	2.082	1.874
Net Realized and Unrealized Gain (Loss) on Investments	(9.676)	21.832	10.871	(1.675)	10.085
Total from Investment Operations	(6.895)	24.193	13.085	.407	11.959
Distributions					
Dividends from Net Investment Income	(2.605)	(2.343)	(2.215)	(2.067)	(1.869)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.605)	(2.343)	(2.215)	(2.067)	(1.869)
Net Asset Value, End of Period	\$127.56	\$137.06	\$115.21	\$104.34	\$106.00
Total Return	-5.13%	21.16%	12.68%	0.40%	12.56%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$94,809	\$91,862	\$69,889	\$57,434	\$50,886
Ratio of Total Expenses to Average Net Assets	0.03%	0.04%	0.04%	0.05%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.97%	1.87%	2.09%	1.96%	1.89%
Portfolio Turnover Rate ²	3%	3%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

Admiral Shares

For a Share Outstanding			Year Ended December 31			
Throughout Each Period	2018	2017	2016	2015	2014	
Net Asset Value, Beginning of Period	\$66.72	\$56.08	\$50.79	\$51.60	\$46.69	
Investment Operations						
Net Investment Income	1.3441	1.1481	1.077	1.013	.912	
Net Realized and Unrealized Gain (Loss) on Investments	(4.711)	10.633	5.291	(.818)	4.908	
Total from Investment Operations	(3.367)	11.781	6.368	.195	5.820	
Distributions						
Dividends from Net Investment Income	(1.263)	(1.141)	(1.078)	(1.005)	(.910)	
Distributions from Realized Capital Gains	_	_	_	_	_	
Total Distributions	(1.263)	(1.141)	(1.078)	(1.005)	(.910)	
Net Asset Value, End of Period	\$62.09	\$66.72	\$56.08	\$50.79	\$51.60	
Total Return ²	-5.17%	21.17%	12.66%	0.39%	12.56%	
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$185,102	\$190,099	\$151,612	\$126,363	\$117,476	
Ratio of Total Expenses to Average Net Assets	0.04%	0.04%	0.04%	0.05%	0.05%	
Ratio of Net Investment Income to Average Net Assets	1.96%	1.87%	2.09%	1.96%	1.89%	
Portfolio Turnover Rate ³	3%	3%	4%	3%	3%	

¹ Calculated based on average shares outstanding.

² Total returns do not include account service fees that may have applied in the periods shown. Fund prospectuses provide information about any applicable account service fees.

³ Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

Institutional Shares

For a Share Outstanding			Year Ended December 31		
Throughout Each Period	2018	2017	2016	2015	2014
Net Asset Value, Beginning of Period	\$66.73	\$56.09	\$50.80	\$51.60	\$46.69
Investment Operations					
Net Investment Income	1.3541	1.153 ¹	1.082	1.017	.915
Net Realized and Unrealized Gain (Loss) on Investments	(4.715)	10.630	5.291	(.808)	4.908
Total from Investment Operations	(3.361)	11.783	6.373	.209	5.823
Distributions					
Dividends from Net Investment Income	(1.269)	(1.143)	(1.083)	(1.009)	(.913)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.269)	(1.143)	(1.083)	(1.009)	(.913)
Net Asset Value, End of Period	\$62.10	\$66.73	\$56.09	\$50.80	\$51.60
Total Return	-5.16%	21.17%	12.67%	0.42%	12.56%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$115,115	\$113,557	\$79,443	\$57,438	\$96,674
Ratio of Total Expenses to Average Net Assets	0.03%	0.035%	0.03%	0.04%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.97%	1.87%	2.10%	1.97%	1.90%
Portfolio Turnover Rate ²	3%	3%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

Institutional Plus Shares

	Year Ended December 31,		April 28, 2015 ¹ to Dec. 31,	
For a Share Outstanding Throughout Each Period	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$125.14	\$105.18	\$95.26	\$100.00
Investment Operations				
Net Investment Income	2.5552	2.1822	2.042	1.335
Net Realized and Unrealized Gain (Loss) on Investments	(8.842)	19.938	9.924	(4.631)
Total from Investment Operations	(6.287)	22.120	11.966	(3.296)
Distributions				
Dividends from Net Investment Income	(2.393)	(2.160)	(2.046)	(1.444)
Distributions from Realized Capital Gains	_	_	_	_
Total Distributions	(2.393)	(2.160)	(2.046)	(1.444)
Net Asset Value, End of Period	\$116.46	\$125.14	\$105.18	\$95.26
Total Return	-5.15%	21.19%	12.69%	-3.28%
Ratios/Supplemental Data				
Net Assets, End of Period (Millions)	\$135,641	\$126,130	\$85,031	\$63,093
Ratio of Total Expenses to Average Net Assets	0.02%	0.02%	0.02%	0.02%3
Ratio of Net Investment Income to Average Net Assets	1.98%	1.89%	2.11%	1.99%³
Portfolio Turnover Rate ⁴	3%	3%	4%	3%5

¹ Inception.

² Calculated based on average shares outstanding.

³ Annualized.

⁴ Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

⁵ Reflects the fund's portfolio turnover for the fiscal year ended December 31, 2015.

Institutional Select Shares

	Yea Dec	June 27, 2016 ¹ to Dec. 31,	
For a Share Outstanding Throughout Each Period	2018	2017	2016
Net Asset Value, Beginning of Period	\$131.31	\$110.37	\$97.70
Investment Operations			
Net Investment Income	2.7042	2.3112	1.181
Net Realized and Unrealized Gain (Loss) on Investments	(9.290)	20.908	12.718
Total from Investment Operations	(6.586)	23.219	13.899
Distributions			
Dividends from Net Investment Income	(2.524)	(2.279)	(1.229)
Distributions from Realized Capital Gains	_	_	_
Total Distributions	(2.524)	(2.279)	(1.229)
Net Asset Value, End of Period	\$122.20	\$131.31	\$110.37
Total Return	-5.14%	21.20%	14.24%
Ratios/Supplemental Data			
Net Assets, End of Period (Millions)	\$20,262	\$14,163	\$8,545
Ratio of Total Expenses to Average Net Assets	0.01%	0.01%	0.01%3
Ratio of Net Investment Income to Average Net Assets	1.99%	1.90%	2.15%3
Portfolio Turnover Rate ⁴	3%	3%	4%5

¹ Inception.

² Calculated based on average shares outstanding.

³ Annualizad

⁴ Excludes the value of portfolio securities received or delivered as a result of in-kind purchases or redemptions of the fund's capital shares, including ETF Creation Units.

⁵ Reflects the fund's portfolio turnover for the fiscal year ended December 31, 2016.

Notes to Financial Statements

Vanguard Total Stock Market Index Fund is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. The fund offers six classes of shares: Investor Shares, ETF Shares, Admiral Shares, Institutional Shares, Institutional Plus Shares, and Institutional Select Shares. Each of the share classes has different eligibility and minimum purchase requirements, and is designed for different type of investors. ETF Shares are listed for trading on NYSE Arca; they can be purchased and sold through a broker.

On November 19, 2018, the fund announced changes to the availability and minimum investment criteria of the Investor and Admiral Share classes. It is anticipated that all of the outstanding Investor Shares will be automatically converted to Admiral Shares beginning in April 2019, with the exception of those held by Vanguard funds and certain other institutional investors.

A. The following significant accounting policies conform to generally accepted accounting principles for U.S. investment companies. The fund consistently follows such policies in preparing its financial statements.

- 1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been materially affected by events occurring before the fund's pricing time but after the close of the securities' primary markets, are valued by methods deemed by the board of trustees to represent fair value. Investments in Vanguard Market Liquidity Fund are valued at that fund's net asset value. Temporary cash investments are valued using the latest bid prices or using valuations based on a matrix system (which considers such factors as security prices, yields, maturities, and ratings), both as furnished by independent pricing services.
- 2. Futures Contracts: The fund uses index futures contracts to a limited extent, with the objectives of maintaining full exposure to the stock market, maintaining liquidity, and minimizing transaction costs. The fund may purchase futures contracts to immediately invest incoming cash in the market, or sell futures in response to cash outflows, thereby simulating a fully invested position in the underlying index while maintaining a cash balance for liquidity. The primary risks associated with the use of futures contracts are imperfect correlation between changes in market values of stocks held by the fund and the prices of futures contracts, and the possibility of an illiquid market. Counterparty risk involving futures is mitigated because a regulated clearinghouse is the counterparty instead of the clearing broker. To further mitigate counterparty risk, the fund trades futures contracts on an exchange, monitors the financial strength of its clearing brokers and clearinghouse, and has entered into clearing agreements with its clearing brokers. The clearinghouse imposes initial margin requirements to secure the fund's performance and requires daily settlement of variation margin representing changes in the market value of each contract. Any assets pledged as initial margin for open contracts are noted in the Statement of Net Assets.

Futures contracts are valued at their quoted daily settlement prices. The notional amounts of the contracts are not recorded in the Statement of Net Assets. Fluctuations in the value of the contracts are recorded in the Statement of Net Assets as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until the contracts are closed, when they are recorded as realized futures gains (losses).

During the year ended December 31, 2018, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. Swap Contracts: The fund has entered into equity swap contracts to earn the total return on selected reference stocks in the fund's target index. Under the terms of the swaps, the fund receives the total return on the referenced stock (i.e., receiving the increase or paying the decrease in value of the selected reference stock and receiving the equivalent of any dividends in respect of the selected referenced stock) over a specified period of time, applied to a notional amount that represents the value of a designated number of shares of the selected reference stock at the beginning of the equity swap contract. The fund also pays a floating rate that is based on short-term interest rates, applied to the notional amount. At the same time, the fund generally invests an amount approximating the notional amount of the swap in high-quality temporary cash investments.

The notional amounts of swap contracts are not recorded in the Statement of Net Assets. Swaps are valued daily based on market quotations received from independent pricing services or recognized dealers and the change in value is recorded in the Statement of Net Assets as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until termination of the swap, at which time realized gain (loss) is recorded. A risk associated with all types of swaps is the possibility that a counterparty may default on its obligation to pay net amounts due to the fund. The fund's maximum amount subject to counterparty risk is the unrealized appreciation on the swap contract. The fund mitigates its counterparty risk by entering into swaps only with a diverse group of prequalified counterparties, monitoring their financial strength, entering into master netting arrangements with its counterparties, and requiring its counterparties to transfer collateral as security for their performance. In the absence of a default, the collateral pledged or received by the fund cannot be repledged, resold, or rehypothecated. In the event of a counterparty's default (including bankruptcy), the fund may terminate any swap contracts with that counterparty, determine the net amount owed by either party in accordance with its master netting arrangements, and sell or retain any collateral held up to the net amount owed to the fund under the master netting arrangements. The swap contracts contain provisions whereby a counterparty may terminate open contracts if the fund net assets decline below a certain level, triggering a payment by the fund if the fund is in a net liability position at the time of the termination. The payment amount would be reduced by any collateral the fund has pledged. Any securities pledged as collateral for open contracts are noted in the Statement of Net Assets. The value of collateral received or pledged is compared daily to the value of the swap contracts exposure with each counterparty, and any difference, if in excess of a specified minimum transfer amount, is adjusted and settled within two business days.

During the year ended December 31, 2018, the fund's average amounts of investments in total return swaps represented less than 1% of net assets, based on the average of notional amounts at each quarter-end during the period.

- 4. Federal Income Taxes: The fund intends to continue to qualify as a regulated investment company and distribute all of its taxable income. Management has analyzed the fund's tax positions taken for all open federal income tax years (December 31, 2015–2018), and has concluded that no provision for federal income tax is required in the fund's financial statements.
- 5. Distributions: Distributions to shareholders are recorded on the ex-dividend date. Distributions are determined on a tax basis and may differ from net investment income and realized capital gains for financial reporting purposes.

- 6. Securities Lending: To earn additional income, the fund lends its securities to qualified institutional borrowers. Security loans are subject to termination by the fund at any time, and are required to be secured at all times by collateral in an amount at least equal to the market value of securities loaned. Daily market fluctuations could cause the value of loaned securities to be more or less than the value of the collateral received. When this occurs, the collateral is adjusted and settled before the opening of the market on the next business day. The fund further mitigates its counterparty risk by entering into securities lending transactions only with a diverse group of prequalified counterparties, monitoring their financial strength, and entering into master securities lending agreements with its counterparties. The master securities lending agreements provide that, in the event of a counterparty's default (including bankruptcy), the fund may terminate any loans with that borrower, determine the net amount owed, and sell or retain the collateral up to the net amount owed to the fund; however, such actions may be subject to legal proceedings. While collateral mitigates counterparty risk, in the event of a default, the fund may experience delays and costs in recovering the securities loaned. The fund invests cash collateral received in Vanguard Market Liquidity Fund, and records a liability in the Statement of Net Assets for the return of the collateral, during the period the securities are on loan. Securities lending income represents fees charged to borrowers plus income earned on invested cash collateral, less expenses associated with the loan. During the term of the loan, the fund is entitled to all distributions made on or in respect of the loaned securities.
- 7. Credit Facility: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$3.1 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement that may be renewed annually; each fund is individually liable for its borrowings, if any, under the credit facility. Borrowings may be utilized for temporary and emergency purposes, and are subject to the fund's regulatory and contractual borrowing restrictions. The participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn amount of the facility; these fees are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under this facility bear interest at a rate based upon the higher of the one-month London Interbank Offered Rate, federal funds effective rate, or overnight bank funding rate plus an agreed-upon spread.

The fund had no borrowings outstanding at December 31, 2018, or at any time during the period then ended.

8. Other: Dividend income is recorded on the ex-dividend date. Interest income includes income distributions received from Vanguard Market Liquidity Fund and is accrued daily. Premiums and discounts on debt securities purchased are amortized and accreted, respectively, to interest income over the lives of the respective securities. Security transactions are accounted for on the date securities are bought or sold. Costs used to determine realized gains (losses) on the sale of investment securities are those of the specific securities sold.

Each class of shares has equal rights as to assets and earnings, except that each class separately bears certain class-specific expenses related to maintenance of shareholder accounts (included in Management and Administrative expenses), shareholder reporting, and the proxy. Marketing and distribution expenses are allocated to each class of shares based on a method approved by the board of trustees. Income, other non-class-specific expenses, and gains and losses on investments are allocated to each class of shares based on its relative net assets.

B. In accordance with the terms of a Funds' Service Agreement (the "FSA") between Vanguard and the fund, Vanguard furnishes to the fund investment advisory, corporate management, administrative, marketing, and distribution services at Vanguard's cost of operations (as defined by the FSA). These costs of operations are allocated to the fund based on methods and guidelines approved by the board of trustees. Vanguard does not require reimbursement in the current period for certain costs of operations (such as deferred compensation/benefits and risk/insurance costs); the fund's liability for these costs of operations is included in Payables to Vanguard on the Statement of Net Assets. All other costs of operations payable to Vanguard are generally settled twice a month.

Upon the request of Vanguard, the fund may invest up to 0.40% of its net assets as capital in Vanguard. At December 31, 2018, the fund had contributed to Vanguard capital in the amount of \$38,011,000, representing 0.01% of the fund's net assets and 15.20% of Vanguard's capitalization. The fund's trustees and officers are also directors and employees, respectively, of Vanguard.

C. Various inputs may be used to determine the value of the fund's investments. These inputs are summarized in three broad levels for financial statement purposes. The inputs or methodologies used to value securities are not necessarily an indication of the risk associated with investing in those securities.

Level 1—Quoted prices in active markets for identical securities.

Level 2—Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3—Significant unobservable inputs (including the fund's own assumptions used to determine the fair value of investments). Any investments valued with significant unobservable inputs are noted on the Statement of Net Assets

The following table summarizes the market value of the fund's investments as of December 31, 2018, based on the inputs used to value them:

Investments	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)
Common Stocks	668,268,616	154	5,973
Temporary Cash Investments	5,691,905	263,813	_
Futures Contracts—Assets ¹	30,362	_	_
Futures Contracts—Liabilities ¹	(320)	_	_
Swap Contracts—Liabilities	_	(2,211)	_
Total	673,990,563	261,756	5,973

¹ Represents variation margin on the last day of the reporting period.

D. Permanent differences between book-basis and tax-basis components of net assets are reclassified among capital accounts in the financial statements to reflect their tax character. These reclassifications have no effect on net assets or net asset value per share. As of period

end, permanent differences primarily attributable to the accounting for in-kind redemptions, passive foreign investment companies, and swap agreements were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	6,485,473
Total Distributable Earnings (Loss)	(6,485,473)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to the tax deferral of losses on wash sales; the realization of unrealized gains or losses on certain futures contracts, and swap agreements; and unrealized gains on passive foreign investment companies. As of period end, the tax-basis components of total distributable earnings (loss) are detailed in the table as follows:

	Amount (\$000)
Undistributed Ordinary Income	807,370
Undistributed Long-Term Gains	_
Capital Loss Carryforwards (Non-Expiring)	(1,732,284)
Net Unrealized Gains (Losses)	195,107,884

As of December 31, 2018, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	479,122,577
Gross Unrealized Appreciation	223,890,207
Gross Unrealized Depreciation	(28,782,323)
Net Unrealized Appreciation (Depreciation)	195,107,884

E. During the year ended December 31, 2018, the fund purchased \$93,038,834,000 of investment securities and sold \$35,268,959,000 of investment securities, other than temporary cash investments. Purchases and sales include \$21,745,488,000 and \$10,979,688,000, respectively, in connection with in-kind purchases and redemptions of the fund's capital shares.

F. Capital share transactions for each class of shares were:

	Year Ended Decem			ecember 31,		
		2018		2017		
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)		
Investor Shares						
Issued	16,009,467	241,652	12,556,777	208,299		
Issued in Lieu of Cash Distributions	2,255,725	33,764	2,038,790	32,768		
Redeemed	(15,458,304)	(222,427)	(12,063,932)	(194,415)		
Net Increase (Decrease)—Investor Shares	2,806,888	52,989	2,531,635	46,652		
ETF Shares						
Issued	18,928,131	135,252	16,459,854	130,270		
Issued in Lieu of Cash Distributions	_	_	_	_		
Redeemed	(8,794,139)	(62,200)	(8,482,119)	(66,700)		
Net Increase (Decrease)—ETF Shares	10,133,992	73,052	7,977,735	63,570		
Admiral Shares						
Issued	29,607,545	433,536	27,046,065	443,009		
Issued in Lieu of Cash Distributions	3,114,582	46,549	2,736,033	43,962		
Redeemed	(23,729,824)	(348,197)	(20,975,587)	(341,277)		
Net Increase (Decrease)—Admiral Shares	8,992,303	131,888	8,806,511	145,694		
Institutional Shares						
Issued	27,433,744	407,227	26,728,536	439,870		
Issued in Lieu of Cash Distributions	2,093,941	31,328	1,703,342	27,314		
Redeemed	(19,574,403)	(286,645)	(11,185,140)	(181,865)		
Net Increase (Decrease)—Institutional Shares	9,953,282	151,910	17,246,738	285,319		
Institutional Plus Shares						
Issued	31,228,823	248,199	27,613,297	245,814		
Issued in Lieu of Cash Distributions	2,582,398	20,611	2,052,478	17,549		
Redeemed	(14,539,143)	(112,031)	(7,424,774)	(63,880)		
Net Increase (Decrease)—Institutional Plus Shares	19,272,078	156,779	22,241,001	199,483		
Institutional Select Shares						
Issued	9,064,355	64,847	4,173,338	34,645		
Issued in Lieu of Cash Distributions	351,965	2,683	220,024	1,788		
Redeemed	(1,292,675)	(9,583)	(739,454)	(6,005)		
Net Increase (Decrease)—Institutional Select Shares	8,123,645	57,947	3,653,908	30,428		

G. Management has determined that no events or transactions occurred subsequent to December 31, 2018, that would require recognition or disclosure in these financial statements.

Report of Independent Registered Public Accounting Firm

To the Board of Trustees of Vanguard Index Funds and Shareholders of Vanguard Total Stock Market Index Fund

Opinion on the Financial Statements

We have audited the accompanying statement of net assets—investments summary of Vanguard Total Stock Market Index Fund (one of the funds constituting Vanguard Index Funds, referred to hereafter as the "Fund") as of December 31, 2018, the related statement of operations for the year ended December 31, 2018, the statement of changes in net assets for each of the two years in the period ended December 31, 2018, including the related notes, and the financial highlights for each of the periods indicated therein (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Fund as of December 31, 2018, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period ended December 31, 2018 and the financial highlights for each of the periods indicated therein in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Fund's management. Our responsibility is to express an opinion on the Fund's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Fund in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits of these financial statements in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our procedures included confirmation of securities owned as of December 31, 2018 by correspondence with the custodian and brokers and by agreement to the underlying ownership records of the transfer agent; when replies were not received from brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania February 13, 2019

We have served as the auditor of one or more investment companies in The Vanguard Group of Funds since 1975.

Special 2018 tax information (unaudited) for Vanguard Total Stock Market Index Fund

This information for the fiscal year ended December 31, 2018, is included pursuant to provisions of the Internal Revenue Code.

The fund distributed \$12,223,751,000 of qualified dividend income to shareholders during the fiscal year.

For corporate shareholders, 90.2% of investment income (dividend income plus short-term gains, if any) qualifies for the dividends-received deduction.

The People Who Govern Your Fund

The trustees of your mutual fund are there to see that the fund is operated and managed in your best interests since, as a shareholder, you are a part owner of the fund. Your fund's trustees also serve on the board of directors of The Vanguard Group, Inc., which is owned by the Vanguard funds and provides services to them.

A majority of Vanguard's board members are independent, meaning that they have no affiliation with Vanguard or the funds they oversee, apart from the sizable personal investments they have made as private individuals. The independent board members have distinguished backgrounds in business, academia, and public service. Each of the trustees and executive officers oversees 212 Vanguard funds.

Information for each trustee and executive officer of the fund appears below. The mailing address of the trustees and officers is P.O. Box 876, Valley Forge, PA 19482. More information about the trustees is in the *Statement of Additional Information*, which can be obtained, without charge, by contacting Vanguard at 800-662-7447, or online at vanguard.com.

Interested Trustees1

F. William McNabb III

Born in 1957. Trustee since July 2009. Principal occupation(s) during the past five years and other experience: chairman of the board (January 2010–present) of Vanguard and of each of the investment companies served by Vanguard, trustee (2009–present) of each of the investment companies served by Vanguard, and director (2008–present) of Vanguard. Chief executive officer and president (2008–2017) of Vanguard and each of the investment companies served by Vanguard, managing director (1995–2008) of Vanguard, and director (1997–2018) of Vanguard Marketing Corporation. Director (2018–present) of UnitedHealth Group.

Mortimer J. Buckley

Born in 1969. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: chief executive officer (January 2018–present) of Vanguard; chief executive officer, president, and trustee (January 2018–present) of each of the investment companies served by Vanguard; president and director (2017–present) of Vanguard; and president (February 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) of the Children's Hospital of Philadelphia.

Independent Trustees

Emerson U. Fullwood

Born in 1948. Trustee since January 2008. Principal occupation(s) during the past five years and other experience: 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. Lead 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.

Amv Gutmann

Born in 1949. Trustee since June 2006. Principal occupation(s) during the past five years and other experience: 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. Trustee of the National Constitution Center

¹ Mr. McNabb and Mr. Buckley are considered "interested persons," as defined in the Investment Company Act of 1940, because they are officers of the Vanguard funds.

JoAnn Heffernan Heisen

Born in 1950. Trustee since July 1998. Principal occupation(s) during the past five years and other experience: corporate vice president of Johnson & Johnson (pharmaceuticals/medical devices/consumer products) and member of its executive committee (1997–2008). Chief global diversity officer (retired 2008), vice president and chief information officer (1997–2006), controller (1995–1997), treasurer (1991–1995), and assistant treasurer (1989–1991) of Johnson & Johnson. Director of Skytop Lodge Corporation (hotels) and the Robert Wood Johnson Foundation. Member of the advisory board of the Institute for Women's Leadership at Rutgers University.

F. Joseph Loughrey

Born in 1949. Trustee since October 2009. Principal occupation(s) during the past five years and other experience: 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), Oxfam America, and the Lumina Foundation for Education. Director of the V Foundation for Cancer Research. 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.

Mark Loughridge

Born in 1953. Trustee since March 2012. Principal occupation(s) during the past five years and other experience: 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.

Scott C. Malpass

Born in 1962. Trustee since March 2012. Principal occupation(s) during the past five years and other experience: chief investment officer (1989–present) and vice president (1996–present) of the University of Notre Dame. Assistant professor of finance at the Mendoza College of Business, University of Notre Dame, and member of the Notre Dame 403(b) Investment Committee. Chairman of the board of TIFF Advisory Services, Inc. Member of the board of Catholic Investment Services, Inc. (investment advisors), the board of advisors for Spruceview Capital Partners, and the board of superintendence of the Institute for the Works of Religion.

Deanna Mulligan

Born in 1963. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: president (2010-present) and chief executive officer (2011-present) 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 Guardian Life Insurance Company of America, the American Council of Life Insurers, the Partnership for New York City (business leadership), and the Committee Encouraging Corporate Philanthropy, Trustee of the Economic Club of New York and the Bruce Museum (arts and science). Member of the Advisory Council for the Stanford Graduate School of Business.

André E. Perold

Born in 1952. Trustee since December 2004. Principal occupation(s) during the past five years and other experience: George Gund Professor of Finance and Banking, Emeritus at the Harvard Business School (retired 2011). Chief investment officer and comanaging partner of HighVista Strategies LLC (private investment firm). Overseer of the Museum of Fine Arts Boston.

Sarah Bloom Raskin

Born in 1961. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: 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 of i(x) Investments, LLC.

Peter F. Volanakis

Born in 1955. Trustee since July 2009. Principal occupation(s) during the past five years and other experience: 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).

Executive Officers

Glenn Booraem

Born in 1967. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Investment stewardship officer (2017–present), treasurer (2015–2017), controller (2010–2015), and assistant controller (2001–2010) of each of the investment companies served by Vanguard.

Christine M. Buchanan

Born in 1970. Principal occupation(s) during the past five years and other experience: principal of Vanguard and global head of Fund Administration at Vanguard. Treasurer (2017–present) of each of the investment companies served by Vanguard. Partner (2005–2017) at KPMG LLP (audit, tax, and advisory services).

Brian Dvorak

Born in 1973. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief compliance officer (2017–present) of Vanguard and each of the investment companies served by Vanguard. Assistant vice president (2017–present) of Vanguard Marketing Corporation. Vice president and director of Enterprise Risk Management (2011–2013) at Oppenheimer Funds, Inc.

Thomas J. Higgins

Born in 1957. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief financial officer (2008–present) and treasurer (1998–2008) of each of the investment companies served by Vanguard.

Peter Mahoney

Born in 1974. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Controller (2015–present) of each of the investment companies served by Vanguard. Head of International Fund Services (2008–2014) at Vanguard.

Anne E. Robinson

Born in 1970. Principal occupation(s) during the past five years and other experience: 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. Director and senior vice president (2016–2018) of Vanguard Marketing Corporation. Managing director and general counsel of Global Cards and Consumer Services (2014–2016) at Citigroup. Counsel (2003–2014) at American Express.

Michael Rollings

Born in 1963. Principal occupation(s) during the past five years and other experience: 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.

Vanguard Senior Management Team

Joseph Brennan Mortimer J. Buckley Gregory Davis John James Martha G. King John T. Marcante Chris D. McIsaac James M. Norris Thomas M. Rampulla Karin A. Risi Anne E. Robinson Michael Rollings

Chairman Emeritus and Senior Advisor

John J. Brennan

Chairman, 1996-2009

Chief Executive Officer and President, 1996–2008

Founder

John C. Bogle

Chairman and Chief Executive Officer, 1974–1996



P.O. Box 2600 Valley Forge, PA 19482-2600

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Text Telephone for People
Who Are Deaf or Hard of Hearing > 800-749-7273

This material may be used in conjunction with the offering of shares of any Vanguard fund only if preceded or accompanied by the fund's current prospectus.

All comparative mutual fund data are from Lipper, a Thomson Reuters Company, or Morningstar, Inc., unless otherwise noted.

You can obtain a free copy of Vanguard's proxy voting guidelines by visiting vanguard.com/proxyreporting or by calling Vanguard at 800-662-2739. The guidelines are also available from the SEC's website, sec.gov. In addition, you may obtain a free report on how your fund voted the proxies for securities it owned during the 12 months ended June 30. To get the report, visit either vanguard.com/proxyreporting or sec.gov.

You can review information about your fund on the SEC's website, and you can receive copies of this information, for a fee, by sending a request via email addressed to publicinfo@sec.gov.

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		Market Value
	Shares	(\$000)
Common Stocks (99.4%) ¹		
Basic Materials (2.4%)	04.000.440	0.070.000
DowDuPont Inc.	61,298,118	3,278,223
Linde plc Ecolab Inc.	14,721,784 6,944,048	2,297,187 1,023,205
Air Products & Chemicals Inc.	5,864,451	938,605
LyondellBasell Industries NV Class A	8,200,223	681,931
PPG Industries Inc.	6,409,288	655,222
Newmont Mining Corp.	14,232,898	493,170
International Paper Co.	10,824,039	436,858
Nucor Corp.	8,387,958	434,580
International Flavors & Fragrances Inc.	2,849,172	382,558
Freeport-McMoRan Inc.	36,741,874	378,809
Celanese Corp. Class A	3,567,741	320,990
Mosaic Co.	9,237,661	269,832
CF Industries Holdings Inc.	6,145,506	267,391
FMC Corp.	3,586,719	265,274
Eastman Chemical Co.	3,351,873	245,055
Albemarle Corp.	2,829,069	218,036
Avery Dennison Corp.	2,311,806	207,670
RPM International Inc.	3,531,561	207,585
Steel Dynamics Inc.	5,816,449	174,726
Royal Gold Inc.	1,747,958	149,713
Axalta Coating Systems Ltd.Alcoa Corp.	5,739,583 4,967,764	134,421 132,043
Chemours Co.	4,556,845	128,594
Reliance Steel & Aluminum Co.	1,791,293	127,486
Ashland Global Holdings Inc.	1,659,711	117,773
WR Grace & Co.	1,778,425	115,438
Huntsman Corp.	5,442,880	104,993
NewMarket Corp.	227,548	93,770
* Ingevity Corp.	1,118,268	93,588
Olin Corp.	4,434,033	89,168
United States Steel Corp.	4,697,466	85,682
Versum Materials Inc.	2,908,154	80,614
Peabody Energy Corp.	2,373,351	72,340
Westlake Chemical Corp.	1,035,050	68,489
Balchem Corp.	835,018	65,424
Scotts Miracle-Gro Co.	1,033,027	63,490
Sensient Technologies Corp.	1,123,438	62,744
Cabot Corp.	1,442,065	61,922
* Cleveland-Cliffs Inc.	7,969,060	61,282
PolyOne Corp.	2,106,964	60,259
* Platform Specialty Products Corp.	5,771,478	59,619
Domtar Corp. Quaker Chemical Corp.	1,686,688	59,253 58,728
HB Fuller Co.	330,469 1,352,226	57,700
* Univar Inc.	3,026,608	53,692
Minerals Technologies Inc.	912,356	46,840
Commercial Metals Co.	2,902,687	46,501
Carpenter Technology Corp.	1,241,169	44,198
* GCP Applied Technologies Inc.	1,773,379	43,536
Innospec Inc.	633,075	39,099
Worthington Industries Inc.	1,101,564	38,379
Stepan Co.	514,484	38,072
Arch Coal Inc. Class A	455,279	37,784
Compass Minerals International Inc.	899,338	37,493
Kaiser Aluminum Corp.	407,069	36,347
* Ferro Corp.	2,192,650	34,381
* Contura Energy Inc.	488,188	32,093
Warrior Met Coal Inc.	1,257,944	30,329
Hecla Mining Co.	12,652,227	29,859
Neenah Inc.	434,910	25,625

		Market
	Shares	Value (\$000)
* Coeur Mining Inc.	5,342,201	23,880
Materion Corp.	520,873	23,434
* Codexis Inc.	1,351,787	22,575
US Silica Holdings Inc.	2,068,768	21,060
* CONSOL Energy Inc.	661,195	20,967
* Verso Corp.	897,447	20,103
* CSW Industrials Inc. Schweitzer-Mauduit International Inc.	409,872 779,149	19,817
Tronox Ltd. Class A	7/9,149 2,418,494	19,518 18,816
*^ AK Steel Holding Corp.	8,323,817	18,729
* AdvanSix Inc.	739,939	18,010
Chase Corp.	179,600	17,969
* Kraton Corp.	817,855	17,862
* PQ Group Holdings Inc.	1,030,089	15,256
Rayonier Advanced Materials Inc.	1,319,642	14,054
Schnitzer Steel Industries Inc.	651,464	14,039
* SunCoke Energy Inc.	1,601,558	13,693
Tredegar Corp.	766,806	12,162
Innophos Holdings Inc.	494,050	12,119
Resolute Forest Products Inc.	1,492,846	11,838
Hawkins Inc.	270,451	11,075
American Vanguard Corp.	718,769	10,918
FutureFuel Corp.	686,758	10,892
* Clearwater Paper Corp.	439,873	10,720
* OMNOVA Solutions Inc.	1,143,302	8,380
* TimkenSteel Corp.	904,096	7,902
* Nexeo Solutions Inc.	811,968	6,975
Gold Resource Corp.	1,591,636	6,367 6,114
Energy Fuels Inc.Intrepid Potash Inc.	2,145,316 2,297,802	5,974
Olympic Steel Inc.	365,116	5,974
* Uranium Energy Corp.	4,045,072	5,056
Synalloy Corp.	264,123	4,382
* Universal Stainless & Alloy Products Inc.	266,099	4,313
* Century Aluminum Co.	504,112	3,685
* AgroFresh Solutions Inc.	957,008	3,627
* LSB Industries Inc.	643,806	3,554
*^ ChromaDex Corp.	1,023,365	3,510
* Ryerson Holding Corp.	491,768	3,118
Northern Technologies International Corp.	101,863	3,014
*^ Marrone Bio Innovations Inc.	1,867,466	2,745
*^ Ur-Energy Inc.	4,085,598	2,656
PH Glatfelter Co.	213,622	2,085
* Veritiv Corp.	82,814	2,068
*A Ramaco Resources Inc.	243,225	1,204
United-Guardian Inc. Hallador Energy Co.	52,121 179,929	956 912
Friedman Industries Inc.	179,929	884
Haynes International Inc.	30,937	817
Kronos Worldwide Inc.	38,291	441
* General Moly Inc.	1,379,582	310
* US Antimony Corp.	359,147	208
* Koppers Holdings Inc.	9,399	160
* Dynasil Corp. of America	158,073	141
* Ampco-Pittsburgh Corp.	39,711	123
* Pershing Gold Corp.	100,868	107
* Solitario Zinc Corp.	101,668	24
* Ikonics Corp.	1,996	16
*^ Golden Minerals Co.	67,011	15
*^ Paramount Gold Nevada Corp.	9,731	8
* Centrus Energy Corp. Class A	2,700	5
*.^ US Gold Corp.	900	1
		16,492,241

Consumer Goods (7.9%) Proctor & Gamble Co. Cosa-Cola Co. Proctor & Gamble Co. Cosa-Cola Co. Cosa-Cola Co. 102,283,888 4,843,728 Philip Morris International Inc. 137,067,04 4,165,337 Philip Morris International Inc. 141,505,319 2,770,396 MIKE Inc. Class B 4,100,381 2,521,357 Alma Group Inc. 2,107,286 Alma Group Inc. 2,107,286 Alma Group Inc. 3,441,048 1,145,181 2,617,182 Colegate-Plantolav Co. 1,247,285 Colegate-Plantolav Co. 2,167,182 Colegate-Plantolav Co. 2,167,182 Colegate-Plantolav Co. 2,167,182 Colegate-Plantolav Co. 2,167,182 Colegate-Plantolav Co. 3,937,388 1,108,206 Consell Motors Co. 104,331,772 786,138 Consell Motors Co. 104,331,772 Consell Motors Co. 104,331,333 Co			Market Value
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Activision Bitzzard Inc. Ford Motor Co. 104,331,772 Fastee Lauder Cos. Inc. Class A Estee Lauder Cos. Inc. Inc. Inc. Inc. Inc. Inc. Inc. Inc	General Motors Co.	33,937,358	1,135,205
Ford Motor Co. 194,331,772 798,138 Estec Lauder Cos. Inc. Class A 5,874,211 764,235 Kraft Heinz Co. 16,283,887 700,858	Kimberly-Clark Corp.	9,251,133	1,054,074
Este Lauder Cos. Inc. Class A 16,283 A87 700,886 Constellation Brands Inc. Class A 3,994,245 642,354 Constellation Brands Inc. Class A 3,994,245 642,354 Electronic Arts Inc. 8,071,336 638,909 General Mills Inc. 15,927,141 620,203 Archer-Daniels-Midland Co. 15,927,141 620,203 VF Corp. 8,478,880 604,883 VF Corp. 8,478,880 604,883 Constellation Brands Corp. 10,777,420 545,231 Clorox Co. 3,409,743 525,578 10,777,200 Clorox Co. 7,416,684 122,823 10,777,200 Clorox Co.	Activision Blizzard Inc.	19,366,240	901,886
Kraft Heinz Co. Constellation Brands Inc. Class A Electronic Arts Inc. General Mills Inc. BOT1 336 639.99 Ceneral Mills Inc. BOT1 336 128 613.039 Arche-Daniels-Midland Co. WE Corp BOT1 4983.128 613.039 WIF Corp BOT2 4983.128 613.039 WIF Corp WIF Corp WIF Corp BOT2 4983.128 613.039 WIF CORP WIF CORP BOT2 4983.128 613.039		104,331,772	798,138
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Harley-Davidson Inc. 4,339,617 148,068			
	·	3,804,897	144,282

			Market Value
		Shares	(\$000)
	Fortune Brands Home & Security Inc.	3,774,736	143,402
	Keurig Dr Pepper Inc.	5,562,050	142,611
*,^	Wayfair Inc.	1,567,649	141,214
	Gentex Corp.	6,978,007	141,026
	Goodyear Tire & Rubber Co.	6,213,291	126,813
	Jefferies Financial Group Inc. Leggett & Platt Inc.	7,299,741 3,471,823	126,724 124,430
	Hanesbrands Inc.	9,623,025	124,430
	Polaris Industries Inc.	1,563,689	119,904
	Toll Brothers Inc.	3,541,830	116,632
	Brunswick Corp.	2,314,531	107,510
	Carter's Inc.	1,220,873	99,648
*	Deckers Outdoor Corp.	772,689	98,866
	Valvoline Inc.	5,007,734	96,900
*	Helen of Troy Ltd.	701,710	92,050
*,^	Mattel Inc.	9,188,524	91,793
	Lancaster Colony Corp.	512,735	90,682
	Flowers Foods Inc.	4,775,678	88,207
*,^	Under Armour Inc. Class A	4,874,058	86,125
*,^	Nu Skin Enterprises Inc. Class A Under Armour Inc.	1,403,196 5,263,730	86,058 85,115
*	Darling Ingredients Inc.	4,375,939	84,193
*	Skechers U.S.A. Inc. Class A	3,581,501	81,981
*	Zynga Inc. Class A	20,744,299	81,525
	Coty Inc. Class A	12,024,349	78,880
	Wolverine World Wide Inc.	2,390,761	76,241
*	TreeHouse Foods Inc.	1,495,578	75,841
	Energizer Holdings Inc.	1,581,999	71,427
	Thor Industries Inc.	1,334,416	69,390
	Columbia Sportswear Co.	778,700	65,481
	WD-40 Co.	349,024	63,962
	Steven Madden Ltd. Dorman Products Inc.	2,094,308	63,374
*	Elanco Animal Health Inc.	703,655 1,951,866	63,343 61,542
*,^	iRobot Corp.	705,705	59,096
,	J&J Snack Foods Corp.	395,829	57,233
*	Fox Factory Holding Corp.	956,740	56,323
	Sanderson Farms Inc.	549,158	54,526
*	Edgewell Personal Care Co.	1,438,537	53,729
	Dana Inc.	3,847,002	52,435
*	Boston Beer Co. Inc. Class A	216,747	52,201
*,^	Tempur Sealy International Inc.	1,233,824	51,080
^	B&G Foods Inc.	1,753,456	50,692
*	Taylor Morrison Home Corp. Class A	3,141,082	49,943
*	Herman Miller Inc. Visteon Corp.	1,569,324	47,472
	Spectrum Brands Holdings Inc.	771,429 1,064,106	46,502 44,958
	KB Home	2,348,046	44,848
*	Crocs Inc.	1,691,279	43,939
	LCI Industries	642,576	42,924
*	TRI Pointe Group Inc.	3,926,408	42,916
	Cooper Tire & Rubber Co.	1,327,294	42,911
*	Welbilt Inc.	3,740,241	41,554
*	USANA Health Sciences Inc.	348,598	41,040
	HNI Corp.	1,139,316	40,366
	Callaway Golf Co.	2,520,504	38,564
*	Meritor Inc.	2,271,086	38,404
*	Gentherm Inc.	953,036	38,102
	Tenneco Inc. Class A Medifast Inc.	1,386,284 300,837	37,970 27,611
*	Hain Celestial Group Inc.	2,357,450	37,611 37,389
*	Meritage Homes Corp.	2,357,450 1,001,565	36,777
	Universal Corp.	656,874	35,570
	Tupperware Brands Corp.	1,108,469	34,994
		.,	2 .,00 1

			Market Value
		Shares	(\$000)
	Nutrisystem Inc.	782,259	34,326
	La-Z-Boy Inc.	1,234,923	34,220
	Delphi Technologies plc	2,352,442	33,687
*	MDC Holdings Inc.	1,192,698	33,527
	American Axle & Manufacturing Holdings Inc. Cal-Maine Foods Inc.	2,938,349 759,204	32,616 32,114
	Steelcase Inc. Class A	2,125,501	31,521
*	G-III Apparel Group Ltd.	1,108,785	30,924
	Calavo Growers Inc.	417,628	30,470
	Oxford Industries Inc.	422,954	30,047
*	Cooper-Standard Holdings Inc.	474,865	29,499
*	Central Garden & Pet Co. Class A	943,089	29,472
*	Cavco Industries Inc.	224,107	29,219
	Inter Parfums Inc.	444,469	29,144
*,^	Fitbit Inc. Class A	5,759,027	28,622
*	Hostess Brands Inc. Class A	2,589,432	28,328
	Vector Group Ltd. Seaboard Corp.	2,790,836 7,661	27,155 27,105
*	Sleep Number Corp.	842,759	26,741
*	Glu Mobile Inc.	3.032.347	24,471
*	Garrett Motion Inc.	1,947,220	24,029
	Standard Motor Products Inc.	481,114	23,300
*	American Woodmark Corp.	417,487	23,246
	Fresh Del Monte Produce Inc.	817,358	23,107
	Sturm Ruger & Co. Inc.	432,701	23,028
^	National Beverage Corp.	309,004	22,177
	Interface Inc. Class A	1,540,156	21,947
	Coca-Cola Bottling Co. Consolidated	123,089	21,834
*,^	LGI Homes Inc.	477,605	21,597
	Freshpet Inc.	658,351 1,343,655	21,173
	Pilgrim's Pride Corp. Knoll Inc.	1,343,655 1,232,030	20,840 20,304
	MGP Ingredients Inc.	352,191	20,092
*	Malibu Boats Inc. Class A	549,619	19,127
	Andersons Inc.	632,989	18,920
*	Fossil Group Inc.	1,183,893	18,623
	Winnebago Industries Inc.	759,002	18,375
	Acushnet Holdings Corp.	868,389	18,297
	ACCO Brands Corp.	2,675,099	18,137
*	American Outdoor Brands Corp.	1,351,099	17,375
*	Stoneridge Inc.	703,841	17,350
*	Phibro Animal Health Corp. Class A Vista Outdoor Inc.	525,784	16,909 16,602
	National Presto Industries Inc.	1,462,740 137,240	16,046
^	Tootsie Roll Industries Inc.	461,425	15,412
*	M/I Homes Inc.	716,313	15,057
*	Central Garden & Pet Co.	409,355	14,102
	Skyline Champion Corp.	954,421	14,020
*	Modine Manufacturing Co.	1,209,255	13,072
	Lennar Corp. Class B	415,047	13,003
*	Primo Water Corp.	919,049	12,876
	Movado Group Inc.	404,066	12,777
*,^	GoPro Inc. Class A	2,991,568	12,684
	John B Sanfilippo & Son Inc.	218,710	12,173
*	Tower International Inc. Century Communities Inc.	488,432 657,636	11,625 11,351
^	Century Communities Inc. Camping World Holdings Inc. Class A	825,272	9,466
	Dean Foods Co.	2,360,833	8,995
*	Beazer Homes USA Inc.	936,420	8,877
*	Motorcar Parts of America Inc.	525,930	8,751
*	Unifi Inc.	382,109	8,727
*	MasterCraft Boat Holdings Inc.	451,609	8,445
*	Nautilus Inc.	749,720	8,172
	Limoneira Co.	406,752	7,952

			Market Value
		Shares	(\$000)
-	Hooker Furniture Corp.	292,319	7,700
*,^	22nd Century Group Inc.	3,034,920	7,557
*	ZAGG Inc.	769,717	7,528
*,^	New Age Beverages Corp.	1,331,052	6,921
*	Farmer Brothers Co.	292,855	6,832
	Johnson Outdoors Inc. Class A	110,155	6,471
*	Clarus Corp. YETI Holdings Inc.	638,712 429,469	6,464 6,373
*	Seneca Foods Corp. Class A	218,253	6,159
	Bassett Furniture Industries Inc.	295,682	5,925
	Turning Point Brands Inc.	210,429	5,728
	Culp Inc.	302,422	5,716
*	Craft Brew Alliance Inc.	394,664	5,648
	Hamilton Beach Brands Holding Co. Class A	226,804	5,321
*,^	Revlon Inc. Class A	209,831	5,286
*,^	elf Beauty Inc.	604,205	5,232
*,^	Sonos Inc.	518,489	5,092
	Rocky Brands Inc.	193,275	5,025
	Weyco Group Inc.	169,895	4,956
*	Lifevantage Corp.	374,459	4,939
*	Universal Electronics Inc. Oil-Dri Corp. of America	194,573	4,919
	Superior Group of Cos. Inc.	161,061 240,917	4,268 4,252
*	Lovesac Co.	165,142	4,252 3,788
	Lifetime Brands Inc.	338,870	3,399
	Marine Products Corp.	194,459	3,288
*,^	Vuzix Corp.	625,024	3,006
	Strattec Security Corp.	101,820	2,932
	Flexsteel Industries Inc.	130,005	2,871
*,^	Pyxus International Inc.	238,753	2,832
*,^	Akoustis Technologies Inc.	561,823	2,792
*	Shiloh Industries Inc.	434,285	2,532
*,^	Funko Inc. Class A	192,360	2,530
*	Alico Inc.	82,474	2,433
*	Delta Apparel Inc. Escalade Inc.	139,331 203,028	2,401 2,325
*,^	Castle Brands Inc.	2,715,417	2,309
*	RiceBran Technologies	767,288	2,302
	Titan International Inc.	484,549	2,258
*,^	Eastman Kodak Co.	882,600	2,251
*	Lakeland Industries Inc.	201,320	2,102
	Kewaunee Scientific Corp.	57,081	1,897
*	Nature's Sunshine Products Inc.	224,632	1,831
*	Natural Alternatives International Inc.	181,845	1,788
	Core Molding Technologies Inc.	228,649	1,626
*,^	Celsius Holdings Inc.	447,606	1,553
	Crown Crafts Inc.	274,576	1,483
	Rocky Mountain Chocolate Factory Inc.	173,764	1,461
*	Ethan Allen Interiors Inc. Centric Brands Inc.	69,679 348,293	1,226 1,195
*,^	Veru Inc.	812,319	1,137
*	Alpha Pro Tech Ltd.	293,460	1,089
*	New Home Co. Inc.	181,777	951
	Acme United Corp.	60,785	866
*,^	Blink Charging Co.	470,258	809
*	Vera Bradley Inc.	94,028	806
*	Reed's Inc.	375,034	776
*,^	S&W Seed Co.	403,039	729
*,^	Level Brands Inc.	231,989	717
*,^	Innovate Biopharmaceuticals Inc.	251,340	581
*	Tandy Leather Factory Inc.	93,919	533
*	Mannatech Inc.	25,551 66,647	480
*,^	Willamette Valley Vineyards Inc. JAKKS Pacific Inc.	66,647 306,686	459 451
,	JANNO I BUILL IIIU.	300,000	401

			Market Value
		Shares	(\$000)
*	LS Starrett Co. Class A	75,368	394
*	Coffee Holding Co. Inc.	105,416	372
	Virco Manufacturing Corp.	54,872	235
	Bridgford Foods Corp. Zedge Inc. Class B	10,626 85,340	211 209
	Jerash Holdings US Inc.	34,954	209
	P&F Industries Inc. Class A	19,303	149
*	Summer Infant Inc.	133,100	140
*,^	Nova Lifestyle Inc.	298,918	138
	CompX International Inc.	7,411	101
*	Dixie Group Inc.	141,943	100
	Ocean Bio-Chem Inc.	24,282	80
*	William Lyon Homes Class A	5,416	58
*,^	CTI Industries Corp.	14,046	42
	Lifeway Foods Inc.	22,423	42
*	Cherokee Inc. Koss Corp.	73,246 17,633	37 33
*	Emerson Radio Corp.	17,033	26
*	US Auto Parts Network Inc.	21,627	20
*	Charles & Colvard Ltd.	20,203	17
*	Hovnanian Enterprises Inc. Class B	19,300	13
*	Iconix Brand Group Inc.	53,800	4
*,^	Orchids Paper Products Co.	766	1
*	CCA Industries Inc.	147 _	53,039,561
Coi	nsumer Services (13.5%)		55,059,501
*	Amazon.com Inc.	11,103,329	16,676,867
	Home Depot Inc.	30,177,998	5,185,184
	Walt Disney Co.	37,777,614	4,142,315
	Comcast Corp. Class A McDonald's Corp.	121,287,849 20,593,963	4,129,851 3,656,870
	Walmart Inc.	20,595,905 39,123,470	3,644,351
*	Netflix Inc.	11,067,658	2,962,369
	Costco Wholesale Corp.	11,708,026	2,385,042
	CVS Health Corp.	34,546,444	2,263,483
*	Booking Holdings Inc.	1,237,488	2,131,474
	Starbucks Corp.	31,484,054	2,027,573
	Lowe's Cos. Inc.	20,517,406	1,894,988
	Walgreens Boots Alliance Inc.	21,511,605	1,469,888
	TJX Cos. Inc.	31,414,950	1,405,505
*	Twenty-First Century Fox Inc. Class A Charter Communications Inc. Class A	27,700,428	1,332,945 1,220,094
	Target Corp.	4,281,483 13,940,612	921,335
	Ross Stores Inc.	9,979,765	830,316
	Sysco Corp.	13,195,902	826,855
	Delta Air Lines Inc.	16,485,992	822,651
	Dollar General Corp.	7,093,022	766,614
	Yum! Brands Inc.	8,335,272	766,178
	Marriott International Inc. Class A	6,838,201	742,355
*	O'Reilly Automotive Inc.	2,140,708	737,110
*	eBay Inc.	24,429,683	685,741
	Twenty-First Century Fox Inc. Southwest Airlines Co.	13,324,343	636,637 628,507
	Kroger Co.	13,522,093 21,311,126	586,056
	McKesson Corp.	5,220,751	576,736
*	Dollar Tree Inc.	6,357,061	574,170
*	AutoZone Inc.	682,918	572,517
	Hilton Worldwide Holdings Inc.	7,923,665	568,919
	Las Vegas Sands Corp.	10,472,601	545,099
	Carnival Corp.	10,558,853	520,551
*	United Continental Holdings Inc.	6,190,343	518,317
	Omnicom Group Inc.	5,988,453	438,594
	Royal Caribbean Cruises Ltd.	4,470,215 9,196,710	437,142
	CBS Corp. Class B	9,186,710	401,643

			Market
		Shares	Value (\$000)
*	Ulta Beauty Inc.	1,515,610	371,082
	American Airlines Group Inc.	11,067,129	355,366
	Expedia Group Inc.	3,094,179	348,559
	Darden Restaurants Inc.	3,318,365	331,372
	Best Buy Co. Inc.	6,161,771	326,327
*	Chipotle Mexican Grill Inc. Class A	741,270	320,073
	AmerisourceBergen Corp. Class A	4,243,361	315,706
	MGM Resorts International Kohl's Corp.	12,636,082 4,448,571	306,551 295,118
*	Burlington Stores Inc.	1,799,111	292,661
*	CarMax Inc.	4,660,320	292,342
	Advance Auto Parts Inc.	1,847,635	290,929
	Domino's Pizza Inc.	1,106,998	274,524
	Tractor Supply Co.	3,252,579	271,395
*	Copart Inc.	5,626,440	268,831
	Viacom Inc. Class B	9,711,280	249,580
	Tiffany & Co.	3,086,197	248,470
*	Norwegian Cruise Line Holdings Ltd.	5,857,004	248,278
	Wynn Resorts Ltd.	2,462,903	243,606
	Macy's Inc.	8,179,692	243,591
	Liberty Broadband Corp. Vail Resorts Inc.	3,287,371	236,789
	Nielsen Holdings plc	1,077,257 9,463,119	227,107 220,775
*	Qurate Retail Group Inc. QVC Group Class A	11,210,596	218,831
	Interpublic Group of Cos. Inc.	10,230,355	211,052
	FactSet Research Systems Inc.	1,012,656	202,663
	Alaska Air Group Inc.	3,283,615	199,808
	Gap Inc.	7,690,398	198,105
	Aramark	6,566,441	190,230
*	GrubHub Inc.	2,415,298	185,519
*	Discovery Communications Inc.	7,994,340	184,509
	Service Corp. International	4,575,498	184,210
*	Live Nation Entertainment Inc.	3,628,692	178,713
*	Bright Horizons Family Solutions Inc.	1,542,416	171,902
*,^	KAR Auction Services Inc. Sirius XM Holdings Inc.	3,592,320 29,650,220	171,426 169,303
	Foot Locker Inc.	3,067,237	163,177
	L Brands Inc.	6,229,315	159,907
	Sabre Corp.	7,325,928	158,533
	Altice USA Inc. Class A	9,374,075	154,860
*	Liberty Media Corp-Liberty Formula One	4,995,296	153,356
*	TripAdvisor Inc.	2,830,721	152,689
*	Liberty Media Corp-Liberty SiriusXM Class C	4,111,706	152,051
*	Five Below Inc.	1,485,067	151,952
	Nordstrom Inc.	3,158,156	147,202
	News Corp. Class A	12,938,905	146,857
*	Etsy Inc.	3,055,402	145,345
	DISH Network Corp. Class A Rollins Inc.	5,819,132 3,934,056	145,304 142,019
	Dunkin' Brands Group Inc.	2,192,313	140,571
	Dun & Bradstreet Corp.	984,118	140,473
	H&R Block Inc.	5,461,870	138,568
*	ServiceMaster Global Holdings Inc.	3,611,695	132,694
*	JetBlue Airways Corp.	8,139,003	130,712
*	Madison Square Garden Co. Class A	486,335	130,192
*	Planet Fitness Inc. Class A	2,351,401	126,082
	Casey's General Stores Inc.	975,422	124,991
*,^	Discovery Communications Inc. Class A	4,993,438	123,538
*	Grand Canyon Education Inc.	1,281,556	123,209
	Wyndham Hotels & Resorts Inc.	2,640,153	119,784
^	Texas Roadhouse Inc. Class A	1,808,518	107,969
^	Williams-Sonoma Inc. Six Flags Entertainment Corp.	2,139,769 1,912,308	107,951 106,382
*,^	Trade Desk Inc. Class A	916,222	106,382
, .	Hado Dook IIIC. Class A	310,222	100,557

Cable One Inc.				Market
Cable One Inc. 128,883 105,779 128,281 128,086 106,134 128,281			Shares	
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		Brinker International Inc.	1,028,198	45,220

		Market Value
	Shares	(\$000)
* Sotheby's	1,122,248	44,598
Signet Jewelers Ltd.	1,390,867	44,188
* BJ's Wholesale Club Holdings Inc.	1,989,779	44,094
Boyd Gaming Corp.	2,090,967	43,450
PriceSmart Inc.	682,602	40,342
Bed Bath & Beyond Inc.	3,503,791	39,663
Bloomin' Brands Inc.	2,208,607	39,512
Lions Gate Entertainment Corp. Class B * Cars.com Inc.	2,628,832	39,117
* Groupon Inc. Class A	1,816,090	39,046
Red Rock Resorts Inc. Class A	12,153,820 1,856,466	38,892 37,705
Children's Place Inc.	412,006	37,118
* Avis Budget Group Inc.	1,640,668	36,882
Penske Automotive Group Inc.	911,647	36,758
* Floor & Decor Holdings Inc. Class A	1,416,356	36,684
* Laureate Education Inc. Class A	2,373,145	36,167
Abercrombie & Fitch Co.	1,793,668	35,963
* Shutterfly Inc.	889,076	35,794
* MSG Networks Inc.	1,516,164	35,721
* Asbury Automotive Group Inc.	529.978	35,328
*^ Michaels Cos. Inc.	2,509,182	33,974
* Simply Good Foods Co.	1,771,453	33,480
Hawaiian Holdings Inc.	1,254,177	33,123
GameStop Corp. Class A	2,572,313	32,463
Matthews International Corp. Class A	797,260	32,385
Guess? Inc.	1,505,344	31,266
Big Lots Inc.	1,079,952	31,232
* SeaWorld Entertainment Inc.	1,390,837	30,724
*^ ANGI Homeservices Inc. Class A	1,910,688	30,705
Dine Brands Global Inc.	450,645	30,346
Allegiant Travel Co. Class A	302,417	30,308
*^ Carvana Co. Class A	926,227	30,297
* Gray Television Inc.	2,048,915	30,201
* Liberty TripAdvisor Holdings Inc. Class A	1,891,202	30,051
* Shake Shack Inc. Class A	658,252	29,898
Caleres Inc.	1,025,935	28,552
BJ's Restaurants Inc.	558,391	28,238
Core-Mark Holding Co. Inc.	1,198,553	27,866
Viad Corp.	525,662	26,330
* Scientific Games Corp.	1,469,503	26,275
International Speedway Corp. Class A	598,281	26,241
Gannett Co. Inc.	3,039,013	25,923
Lions Gate Entertainment Corp. Class A	1,602,116	25,794
Group 1 Automotive Inc.	488,023	25,729
* Denny's Corp.	1,566,924	25,400
Scholastic Corp.	630,074	25,367
* Houghton Mifflin Harcourt Co.	2,780,142	24,632
* K12 Inc.	967,512	23,985
* Liberty Media Corp-Liberty Formula One Class A	799,896	23,773
Papa John's International Inc.	587,653	23,394
* Liberty Media Corp-Liberty Braves Class C	925,452	23,035
EW Scripps Co. Class A	1,445,947	22,745
* Quotient Technology Inc.	2,110,916	22,545
* Genesco Inc.	505,442	22,391
* Chefs' Warehouse Inc.	675,534	21,604
* Rent-A-Center Inc.	1,267,156	20,515
* Diplomat Pharmacy Inc.	1,474,123	19,842
* Hertz Global Holdings Inc.	1,437,010	19,615
Marcus Corp.	493,344	19,487
^ Dillard's Inc. Class A	316,672	19,099
* TrueCar Inc.	2,075,397	18,803
Entercom Communications Corp. Class A	3,243,547	18,521
*^ Stitch Fix Inc. Class A	1,073,618	18,348
Weis Markets Inc.	379,503	18,133

Chico's FAS Inc.				Market
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. Carrols Restaurant Group Inc. 853,161 8,395 . Fiesta Restaurant Group Inc. 532,247 8,255 . El Pollo Loco Holdings Inc. 437,988 8,225 . El Pollo Loco Holdings Inc. 561,140 8,006 . Cato Corp. Class A 561,140 8,007 . Lumber Liquidators Holdings Inc. 797,105 7,588 . Upwork Inc. 412,105 7,463 . Hibbett Sports Inc. 516,617 7,386 . Mibbett Sports Inc. 516,617 7,366 . Duluth Holdings Inc. 500,175 7,366 . Duluth Holdings Inc. 291,583 7,357 . 1-800-Flowers.com Inc. Class A 600,047 7,339 . Golden Entertainment Inc. 455,869 7,303 . Del Taco Restaurants Inc. 435,698 7,003 . Del Frisco's Restaurant Group Inc. 950,191 6,794 . Citi Trends Inc. 333,045 6,791 . Liberty Media Corp-Liberty Braves Class A 266,340 6,643 . RCI Hospitality Holdings Inc. 295,309 6,594 . Habit Restaurants Inc. Class A 60,040 6,594	*	Lindblad Expeditions Holdings Inc.	683,537	
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Haverty Furniture Cos. Inc.	*	Carrols Restaurant Group Inc.	853,161	8,395
El Pollo Loco Holdings Inc. 540,963 8,206 Cato Corp. Class A 561,140 8,007 Lumber Liquidators Holdings Inc. 797,105 7,588 Upwork Inc. 412,105 7,463 Hibbett Sports Inc. 516,617 7,388 Titan Machinery Inc. 560,175 7,366 Duluth Holdings Inc. 291,583 7,357 1-800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 455,869 7,303 Del Frisco's Restaurant Group Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 333,045 6,791 Citi Trends Inc. 333,045 6,794 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 568,819 6,554 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 347,042 6,387 Century Casinos Inc. 847,042 6,266 Clean Energy Fuels Corp. 3,446,18	*	Fiesta Restaurant Group Inc.	532,247	8,255
Cato Corp. Class A 561,140 8,007 1. Lumber Liquidators Holdings Inc. 797,105 7,588 2. Upwork Inc. 412,105 7,463 3. Hibbett Sports Inc. 516,617 7,388 4. Titan Machinery Inc. 560,175 7,366 5. Duluth Holdings Inc. 291,583 7,357 5. Duluth Holdings Inc. 291,583 7,357 6. Duluth Holdings Inc. 455,869 7,339 5. Del Tesco Restaurants Inc. 455,869 7,303 6. Del Frisco's Restaurant Group Inc. 726,097 7,254 7. Del Frisco's Restaurant Group Inc. 333,045 6,791 6. Liberty Media Corp-Liberty Braves Class A 266,340 6,643 8. Cit Trends Inc. 295,309 6,594 8. Habit Restaurants Inc. Class A 600,402 6,514 8. Habit Restaurants Inc. Class A 600,402 6,514 8. Wews Corp. Class B 558,819 6,454 9 Office Depot Inc. 2,481,203 6,402 9 Century Casinos Inc. 347,042 6,260 10 Daily Journal		Haverty Furniture Cos. Inc.	437,988	8,225
Lumber Liquidators Holdings Inc. 797,105 7,588 Upwork Inc. 412,105 7,463 Hibbett Sports Inc. 516,617 7,388 Titan Machinery Inc. 560,175 7,366 Duluth Holdings Inc. 291,583 7,357 1-800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,454 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Nathan's Famous Inc. 88,568 5,885 <td>*</td> <td>El Pollo Loco Holdings Inc.</td> <td>540,963</td> <td>8,206</td>	*	El Pollo Loco Holdings Inc.	540,963	8,206
V Upwork Inc. 412,105 7,463 Hibbett Sports Inc. 516,617 7,388 Titan Machinery Inc. 560,175 7,366 Duluth Holdings Inc. 291,583 7,357 1-800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A RCI Hospitality Holdings Inc. 295,309 6,594 RCI Hospitality Holdings Inc. 295,309 6,591 Habit Restaurants Inc. Class A News Corp. Class B Gorp. 620,402 6,514 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 A Daily Journal Corp. 702,516 5,655		Cato Corp. Class A	561,140	8,007
Hibbett Sports Inc. 516,617 7,388 Titan Machinery Inc. 560,175 7,366 No Duluth Holdings Inc. 291,583 7,357 I -800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,452 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 8,568 5,885 Daily Journal Corp. 702,516 5,855	*,^	Lumber Liquidators Holdings Inc.	797,105	7,588
*** Titan Machinery Inc. 560,175 7,366 *** Duluth Holdings Inc. 291,583 7,357 ** 1-800-Flowers.com Inc. Class A 600,047 7,339 ** Golden Entertainment Inc. 455,869 7,303 ** Del Taco Restaurants Inc. 726,097 7,254 ** Bojangles' Inc. 435,698 7,006 ** Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 ** Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 ** Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,454 Office Depot Inc. 2,481,203 6,402 ** Drive Shack Inc. 1,629,434 6,387 ** Century Casinos Inc. 347,042 6,260 ** Century Casinos Inc. 3446,186 5,927 Nathan's Famous Inc. 88,568 5,885 ** Daily Journal Corp. 24,964 5,842 ** Daily Journal Corp. 702,516 5,655	*			
*** Duluth Holdings Inc. 291,583 7,357 1 -800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,454 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 Daily Journal Corp. 24,964 5,842 Drivbelly Corp. 702,516 5,655	*	Hibbett Sports Inc.	516,617	7,388
1-800-Flowers.com Inc. Class A 600,047 7,339 Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,454 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 A Daily Journal Corp. 24,964 5,842 Potbelly Corp. 702,516 5,655	*		560,175	7,366
Golden Entertainment Inc. 455,869 7,303 Del Taco Restaurants Inc. 726,097 7,254 Bojangles' Inc. 435,698 7,006 Del Frisco's Restaurant Group Inc. 950,191 6,794 Citi Trends Inc. 333,045 6,791 Liberty Media Corp-Liberty Braves Class A 266,340 6,643 RCI Hospitality Holdings Inc. 295,309 6,594 Habit Restaurants Inc. Class A 620,402 6,514 News Corp. Class B 558,819 6,454 Office Depot Inc. 2,481,203 6,402 Drive Shack Inc. 1,629,434 6,387 Century Casinos Inc. 847,042 6,260 Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 A Daily Journal Corp. 24,964 5,842 Potbelly Corp. 702,516 5,655	*,^		291,583	
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' Drive Shack Inc. 1,629,434 6,387 ' Century Casinos Inc. 847,042 6,260 ' Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 ' Daily Journal Corp. 24,964 5,842 Potbelly Corp. 702,516 5,655				
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* Clean Energy Fuels Corp. 3,446,186 5,927 Nathan's Famous Inc. 88,568 5,885 * Daily Journal Corp. 24,964 5,842 * Potbelly Corp. 702,516 5,655	*			
Nathan's Famous Inc. 88,568 5,885 Daily Journal Corp. 24,964 5,842 Potbelly Corp. 702,516 5,655	*			
*^ Daily Journal Corp. 24,964 5,842 * Potbelly Corp. 702,516 5,655	*			
* Potbelly Corp. 702,516 5,655				
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* Reading International Inc. Class A 386,999 5,627	*		· · · · · · · · · · · · · · · · · · ·	
	*	Reading International Inc. Class A	386,999	5,627

Tile Shop Holdings Inc. 1013_318 5030 5331				Market
Tilly S Inc. Class A 51.0657 5.539			Shares	Value (\$000)
Tily's Inc. Class A		Tile Shop Holdings Inc.	1,013,318	5,553
Clear Charmel Outritoor Holdings Inc. Class A 1,066,412 5,483 816depocinin Education Inc. Class A 776,825 5,446 Entravision Communications Corp. Class A 1,826,760 5,225 840 1,061,834 5,125 5,246				
Bridgepoint Education Inc. Class A 776,825 5,446 Entravision Communications Corp. Class A 1,826,760 5,325 Red Lion Hotels Corp. 640,754 5,750 Avid Technology Inc. Class A 218,649 5,176 Boston Omaha Corp. Class A 18,849 5,114 Village Super Market Inc. Class A 19,949 5,102 Class A 19,949 7,103 Class A	*		450,373	,
Entravision Communications Corp. Class A 1,282,760 5,232				
Red Lion Hotels Corp. 640,254 5,250 Avid Tachhology Inc. 1,085,188 5,156 Boston Ornahs Corp. Class A 216,549 5,114 5,250 5,104 1,005,105 5,0	*		·	,
Natir Technology Inc. 1,085,188 5,156 Boston Omaha Corp. Class A 218,589 5,114 Village Super Market Inc. Class A 187,961 5,026 GNC Holdings Inc. Class A 211,4823 5,012 Hemisphare Media Group Inc. Class A 410,074 4,978 Tribura Publishing Co. 288,44 449,99 PCM Inc. 270,137 4,885 Some Authorithin Inc. Class A 440,074 4,978 Some Authorithin Inc. Class A 484,470 4,978 PCM Inc. 270,137 4,885 Some Authorithin Inc. Class A 4,984 4,984 PCM Inc. 270,137 4,885 Some Authorithin Inc. Class A 4,984 4,984 PCM Inc. 270,137 4,885 Some Authorithin Inc. Class A 4,984 4,984 PCM Inc. 270,137 4,985 Some Authorithin Inc. Class A 4,984 4,984 Some Authorithin Inc. Class A 4,984 4,984 Some Authorithin Inc. Class A 4,984 4,985 A thorne Group Inc. 231,762 4,325 Nocalise & Co. Class A 4,984 4,985 Nocalise & Co. Class A 4,984 4,985 Nocalise & Co. Class A 4,285 Noca				
8 Baston Omaha Corp. Class A 218,549 5.114 Villege Eyer Market Inc. Class A 137,361 5.026 GNC Holdings Inc. Class A 2,114,623 5.012 Tribune Publishing Co. 278,137 4,888 Sonic Automotive Inc. Class A 344,780 4,748 Sonic Automotive Inc. Class A 344,780 4,486 Sportsman's Warehouse Holdings Inc. 1019,460 4,865 Sportsman's Warehouse Holdings Inc. 271,158 4,102 Natural Health Triands Corp. 228,051 4,402 Al Home Group Inc. 228,051 4,402 Al Home Group Inc. 228,051 4,402 Al Home Group Inc. 228,051 4,024 MILD Paramers Inc. Class A 1,600,204 4,177 Milled Inc. 26,338 4,236 MIDC Paramers Inc. Class A 117,114 3,892 Milled Inc. 1,961,674 3,590 Sage Communications Inc. Class A 117,114 3,892 Milled Inc. 1,961,674 3,590 Overstock com Inc. 288,844	*			
Milege Super Market Inc. Class A 187,861 5,026	* ^			,
MC Holdings Inc. Class A	, ,			,
Hemisphere Media Group Inc. Class A 410,074 4,978 Tribune Publishing Co. 436,424 4,949 PCM Inc. 278,137 4,988 Sonic Automotive Inc. Class A 344,780 4,744 Sportsman's Warehouse Holdings Inc. 1,109,460 4,465 Spordsway Motresports Inc. 233,061 4,402 At Home Group Inc. 233,061 4,402 At Home Group Inc. 231,702 4,252 Noodles & Co. Class A 606,247 4,252 Natural Grocers by Vitamin Cottage Inc. 276,338 4,233 MIDC Partners Inc. Class A 1,000,004 4,177 Kirkland's Inc. 136,465 3,644 Saga Communications Inc. Class A 117,114 3,932 Bed Robin Gournet Burgers Inc. 136,465 3,645 Bed Robin Gournet Burgers Inc. 136,465 3,630 Bed Robin Gou	*,^			
Tibune Publishing Co. 436,424 4,949 PCM Inc. 278,137 4,989 Sonic Automotive Inc. Class A 344,780 4,744 Sportsmans* Warehouse Holdings Inc. 271,158 4,412 Sportsmans* Warehouse Holdings Inc. 271,158 4,412 Natural Health Trends Corp. 238,051 4,402 4 Horne Group Inc. 231,762 4,252 Noodles & Co. Class A 276,338 4,236 MICP Partners Inc. Class A 1000,004 4,177 Kridland's Inc. 420,434 4,007 Saga Communications Inc. Class A 115,114 3,989 Ovariatock Com Inc. 136,665 3,646 Digdal Turbine Inc. 288,584 3,512 Lands' End Inc. 288,584 3,512 Lands' End Inc. 288,584 3,512 Lands' Class A 318,477 3,293 He Foods Group Inc. 245,871 3,270 Las Group Inc. 382,277 3,104 Las Group Inc. 318,487 3,067 Las Group I			· · ·	
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A Home Group Inc. 231,762 4,252 Nodles & Co. Class A 608,247 4,252 Natural Grocers by Vitamin Ottage Inc. 276,338 4,256 MDC Partners Inc. Class A 1,800,004 4,177 Kirkland's Inc. 420,434 4,007 Saga Communications Inc. Class A 117,114 3,892 Bed Robin Gournet Burgers Inc. 1,961,674 3,590 Digital Turbine Inc. 1,961,674 3,590 Overstock com Inc. 258,864 3,512 Lands End Inc. 239,935 3,409 J Alexander's Holdings Inc. 404,654 3,300 Gailen Class A 318,477 3,293 HF Foods Group Inc. 405,571 3,273 Leaf Group Ltd. 470,557 3,223 Rublicon Project Inc. 811,887 3,067 Lee Enterprises Inc. 1,404,374 2,265 Clobal Eagle Entertainment Inc. 1,404,374 2,265 Liquidity Services Inc. 418,992 2,256 The Street Inc. 314,455 2,424 Biglart Holdings Inc. 314,455 2,424 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
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ONE Group Hospitality Inc. 280,313 861 Dover Motorsports Inc. 442,500 832	*			
	*		280,313	861
Marchex Inc. Class B 301,676 799				
		Marchex Inc. Class B	301,676	799

		-	Market Value
		Shares	(\$000)
*,^	Select Interior Concepts Inc. Class A McClatchy Co. Class A	105,442	793 777
-,,,	Ark Restaurants Corp.	101,542 42,303	777 777
	AH Belo Corp. Class A	227,017	765
*,^	Remark Holdings Inc.	625,505	757
*	Nevada Gold & Casinos Inc.	316,555	753
	CSS Industries Inc.	77,281	693
*,^	VistaGen Therapeutics Inc.	382,270	573
*	Smart & Final Stores Inc.	117,503	557
*,^	JC Penney Co. Inc.	524,500	545
*,^	Famous Dave's of America Inc.	117,953	541
*,^	Interpace Diagnostics Group Inc.	622,538	498
	Waitr Holdings Inc.	43,849	489
*,^	Net Element Inc. Chuy's Holdings Inc.	84,460 25,839	483 458
	Salem Media Group Inc. Class A	215,388	450
*,^	Valeritas Holdings Inc.	1,380,580	449
*	Emmis Communications Corp. Class A	139,651	446
	Canterbury Park Holding Corp.	31,705	441
*	Destination Maternity Corp.	135,486	385
	Barnes & Noble Inc.	54,038	383
	Collectors Universe Inc.	30,516	347
*,^	Youngevity International Inc.	59,632	341
*	Build-A-Bear Workshop Inc.	82,050	324
*,^	Tuesday Morning Corp.	190,533	324
	Townsquare Media Inc. Class A	78,884	322
*,^	Sears Hometown and Outlet Stores Inc.	143,195	305
*,^	Social Reality Inc.	148,260	302
	Value Line Inc.	9,238	240
*,^	Stein Mart Inc.	193,531	207
* ^	Diversified Restaurant Holdings Inc.	188,200 27,138	183
*,^	Purple Innovation Inc. Genius Brands International Inc.	68,896	160 148
*	Cumulus Media Inc. Class A	12,241	132
*	Profire Energy Inc.	80,670	117
^	Stage Stores Inc.	130,030	96
*	BioHiTech Global Inc.	41,922	68
*,^	Kona Grill Inc.	61,343	64
^	FAT Brands Inc.	12,218	57
*	EVINE Live Inc.	136,245	54
	Harte-Hanks Inc.	12,046	29
*	Dolphin Entertainment Inc.	37,619	29
	Haverty Furniture Cos. Inc. Class A	1,375	26
	SG Blocks Inc. Inspired Entertainment Inc.	8,584 4,644	23 22
*,^	LiveXLive Media Inc.	4,009	20
*	Insignia Systems Inc.	9,210	14
*,^	National American University Holdings Inc.	69,425	13
*,^	Spark Networks SE ADR	1,099	9
	Viacom Inc. Class A	300	8
*,§	Universal Travel Group	42,843	7
*	Live Ventures Inc.	812	5
*	Urban One Inc. Class A	950	2
*	YogaWorks Inc.	3,300	2
*	DGSE Cos. Inc.	2,900	1
*	Ascent Capital Group Inc. Class A	2,801	90,710,181
Fin	ancials (19.3%)		
*	Berkshire Hathaway Inc. Class B	50,508,373	10,312,800
	JPMorgan Chase & Co.	88,872,039 47,014,765	8,675,688
	Visa Inc. Class A	47,014,765	6,203,128
	Bank of America Corp. Wells Fargo & Co.	236,065,255 113,207,525	5,816,648 5,216,603
	Mastercard Inc. Class A	24,548,873	4,631,145
	Master saila ilite. Olassi / t	24,340,073	4,001,140

		Market
	Shares	Value (\$000)
Citigroup Inc.	65,271,677	3,398,044
American Tower Corp.	11,767,132	1,861,443
CME Group Inc.	9,556,227	1,797,717
US Bancorp	38,911,037 18,361,147	1,778,234
American Express Co. Chubb Ltd.	18,261,147 11,698,938	1,740,653 1,511,269
Goldman Sachs Group Inc.	8,942,253	1,493,803
Simon Property Group Inc.	8,262,497	1,388,017
Morgan Stanley	34,464,743	1,366,527
Charles Schwab Corp.	32,482,855	1,349,013
PNC Financial Services Group Inc.	11,116,783	1,299,663
Crown Castle International Corp. BlackRock Inc.	11,081,733 2,950,064	1,203,809 1,158,844
Intercontinental Exchange Inc.	15,214,805	1,146,131
S&P Global Inc.	6,703,499	1,139,193
Bank of New York Mellon Corp.	23,771,507	1,118,925
Marsh & McLennan Cos. Inc.	13,460,764	1,073,496
Prologis Inc.	16,825,574	987,998
Capital One Financial Corp. Progressive Corp.	12,655,544 15,585,809	956,633 940,292
Aon plc	6,437,938	935,819
American International Group Inc.	23,638,813	931,606
Aflac Inc.	20,342,560	926,807
Prudential Financial Inc.	11,040,115	900,321
BB&T Corp.	20,643,623	894,282
Travelers Cos. Inc.	7,076,477	847,408
MetLife Inc. Public Storage	19,780,238 3,959,722	812,177 801,487
Allstate Corp.	9,204,293	760,551
Equinix Inc.	2,147,782	757,222
Welltower Inc.	10,035,012	696,530
Equity Residential	9,838,544	649,442
AvalonBay Communities Inc.	3,691,741	642,548
Moody's Corp. State Street Corp.	4,352,054 9,634,615	609,462 607,655
SunTrust Banks Inc.	12,042,206	607,409
Digital Realty Trust Inc.	5,511,180	587,216
T. Rowe Price Group Inc.	6,113,127	564,364
Ventas Inc.	9,521,907	557,889
Discover Financial Services	8,981,964	529,756
Realty Income Corp. * SBA Communications Corp. Class A	7,873,536	496,348
M&T Bank Corp. Class A	3,026,443 3,394,585	489,951 485,867
Northern Trust Corp.	5,623,070	470,032
Boston Properties Inc.	4,128,446	464,657
* IHS Markit Ltd.	9,472,664	454,404
Weyerhaeuser Co.	20,028,509	437,823
Essex Property Trust Inc.	1,764,407	432,650
Hartford Financial Services Group Inc. Fifth Third Bancorp	9,594,955 17,622,562	426,496 414,659
KeyCorp	27,736,874	409,951
Synchrony Financial	17,296,864	405,784
Ameriprise Financial Inc.	3,722,859	388,555
* First Republic Bank	4,419,133	384,023
Citizens Financial Group Inc.	12,566,128	373,591
Regions Financial Corp.	27,719,617	370,888
TD Ameritrade Holding Corp. * Markel Corp.	7,527,371 352,708	368,540 366,129
Arthur J Gallagher & Co.	4,909,929	361,862
HCP Inc.	12,555,001	350,661
* CBRE Group Inc. Class A	8,634,713	345,734
Annaly Capital Management Inc.	34,966,461	343,371
Huntington Bancshares Inc.	28,533,672	340,121
Principal Financial Group Inc.	7,560,379	333,942

			Market
		Shares	Value (\$000)
	Alexandria Real Estate Equities Inc.	2,874,902	331,304
	Host Hotels & Resorts Inc.	19,795,220	329,986
	MSCI Inc. Class A	2,231,938	329,055
*	Cincinnati Financial Corp.	4,138,669	320,416
*	Berkshire Hathaway Inc. Class A Loews Corp.	1,034 6,733,676	316,404 306,517
	Equifax Inc.	3,223,623	300,317
	Comerica Inc.	4,355,109	299,152
	E*TRADE Financial Corp.	6,786,071	297,773
	Cboe Global Markets Inc.	2,993,922	292,895
	Lincoln National Corp.	5,706,649	292,808
	Mid-America Apartment Communities Inc.	3,039,549	290,885
	UDR Inc.	7,338,767	290,762
	Extra Space Storage Inc. Vornado Realty Trust	3,203,870 4,583,164	289,886 284,294
	WP Carey Inc.	4,282,862	279,842
*	Arch Capital Group Ltd.	10,274,873	274,545
*	SVB Financial Group	1,422,106	270,086
	KKR & Co. Inc. Class A	13,394,309	262,930
	Raymond James Financial Inc.	3,435,383	255,627
	Regency Centers Corp.	4,294,881	252,024
	Nasdag Inc.	3,062,951	249,845
	Ally Financial Inc. Duke Realty Corp.	10,988,664 9,553,632	249,003 247,439
	Iron Mountain Inc.	7,623,179	247,433
	AGNC Investment Corp.	13,997,697	245,520
	Everest Re Group Ltd.	1,082,637	235,755
	Alleghany Corp.	376,736	234,827
	Reinsurance Group of America Inc. Class A	1,674,537	234,820
	Federal Realty Investment Trust	1,971,226	232,684
	Franklin Resources Inc. Sun Communities Inc.	7,519,550 2,185,010	223,030 222,237
	Fidelity National Financial Inc.	6,975,126	219,298
	Camden Property Trust	2,474,396	217,871
	Zions Bancorp NA	5,162,224	210,309
	Equity LifeStyle Properties Inc.	2,155,119	209,327
	National Retail Properties Inc.	4,220,276	204,726
	MarketAxess Holdings Inc. Western Union Co.	953,862 11,772,763	201,561 200,843
	Torchmark Corp.	2,690,220	200,543
	Omega Healthcare Investors Inc.	5,331,748	187,411
	VEREIT Inc.	25,647,463	183,379
	Invesco Ltd.	10,949,349	183,292
	SL Green Realty Corp.	2,315,568	183,115
	WR Berkley Corp.	2,451,565	181,195
	Apartment Investment & Management Co.	4,128,767	181,170
	Brown & Brown Inc. Gaming and Leisure Properties Inc.	6,343,043 5,405,229	174,814 174,643
	Kilroy Realty Corp.	2,749,841	172,910
	SEI Investments Co.	3,738,465	172,717
	Unum Group	5,831,434	171,328
	East West Bancorp Inc.	3,924,260	170,823
*	Black Knight Inc.	3,788,035	170,689
*	Voya Financial Inc.	4,145,388	166,396
-	Athene Holding Ltd. Class A Liberty Property Trust	4,174,883 3,928,282	166,286 164,516
	Macerich Co.	3,756,259	162,571
	American Financial Group Inc.	1,790,027	162,051
	Old Republic International Corp.	7,679,716	157,972
	Lamar Advertising Co. Class A	2,265,390	156,720
	Kimco Realty Corp.	10,659,151	156,157
	Medical Properties Trust Inc. Invitation Homes Inc.	9,674,348 7,656,339	155,564 152,720
	Jones Lang LaSalle Inc.	7,656,328 1,212,308	153,739 153,478
	JUNUS Lang Laballe IIIC.	1,212,300	100,470

Commerce Bancelaries Inc. 2,705,003 124,117				Market
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People's United Financial Inc.				
Douglas Emmett Inc.			2,820,968	149,173
Vici Properties Inc. 7,820,577 146,870 143,971 143,971 143,971 143,971 143,971 143,971 143,975				
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Park Hotels & Resorts Inc.				
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		Equity Commonwealth	3,055,359	91,691

			Market
			Value
		Shares	(\$000)
	Kemper Corp.	1,379,100	91,545
	Pinnacle Financial Partners Inc.	1,964,539	90,565
	Associated Banc-Corp	4,528,389	89,617
	FNB Corp. Cousins Properties Inc.	8,963,502 11,090,943	88,201 87,618
	Erie Indemnity Co. Class A	643,555	85,792
*	Essent Group Ltd.	2,496,961	85,346
	CoreSite Realty Corp.	975,731	85,113
	Glacier Bancorp Inc.	2,147,769	85,095
	Two Harbors Investment Corp.	6,568,457	84,339
	EastGroup Properties Inc. MB Financial Inc.	916,200 2,115,187	84,043 83,825
*,^	Zillow Group Inc.	2,113,167	83,786
,	BankUnited Inc.	2,791,482	83,577
	Chimera Investment Corp.	4,680,216	83,401
	United Bankshares Inc.	2,654,042	82,567
	Apple Hospitality REIT Inc.	5,766,668	82,233
	Ryman Hospitality Properties Inc.	1,228,598	81,935
	National Health Investors Inc.	1,066,541	80,567
	Weingarten Realty Investors Spirit Realty Capital Inc.	3,234,714 2,273,985	80,253 80,158
	FirstCash Inc.	1,107,896	80,156
	TCF Financial Corp.	4,090,535	79,725
	Community Bank System Inc.	1,359,878	79,281
	MFA Financial Inc.	11,863,564	79,249
	Hancock Whitney Corp.	2,282,968	79,105
	Sunstone Hotel Investors Inc.	6,064,451	78,899
	Sabra Health Care REIT Inc.	4,726,543	77,893
	Physicians Realty Trust Bank of Hawaii Corp.	4,835,677 1,140,504	77,516 76,779
	RLJ Lodging Trust	4,658,890	76,406
	Valley National Bancorp	8,569,268	76,095
	Bank OZK	3,287,283	75,049
	RLI Corp.	1,087,121	75,000
	Fulton Financial Corp.	4,829,812	74,765
	UMB Financial Corp.	1,215,226	74,092
	Senior Housing Properties Trust Stifel Financial Corp.	6,304,534 1,777,851	73,889 73,639
	Rexford Industrial Realty Inc.	2,461,319	72,535
	STAG Industrial Inc.	2,878,977	71,629
	Cathay General Bancorp	2,116,004	70,950
	Paramount Group Inc.	5,611,958	70,486
	Columbia Banking System Inc.	1,940,264	70,412
	Uniti Group Inc.	4,516,529	70,322
	Taubman Centers Inc. Chemical Financial Corp.	1,541,219 1,910,059	70,110 69,927
*	Texas Capital Bancshares Inc.	1,354,364	69,194
	Home BancShares Inc.	4,220,120	68,957
	Investors Bancorp Inc.	6,569,047	68,318
	BancorpSouth Bank	2,594,962	67,832
*	Zillow Group Inc. Class A	2,149,800	67,568
	Outfront Media Inc.	3,720,999	67,425
	First Hawaiian Inc.	2,973,726	66,939 66,487
	Aspen Insurance Holdings Ltd. PS Business Parks Inc.	1,583,410 506,727	66,487 66,381
	CNO Financial Group Inc.	4,398,178	65,445
	Evercore Inc. Class A	913,987	65,405
	Empire State Realty Trust Inc.	4,590,678	65,325
	White Mountains Insurance Group Ltd.	75,921	65,117
	Americold Realty Trust	2,541,984	64,922
	Federated Investors Inc. Class B	2,402,666	63,791
	American Equity Investment Life Holding Co. Old National Bancorp	2,276,532 4,051,838	63,606 62,398
*	SLM Corp.	7,490,119	62,243
	OLIVI OOIP.	7,400,110	02,243

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		Market Value
	Shares	(\$000)
CVB Financial Corp.	3,068,595	62,078
* Genworth Financial Inc. Class A	13,316,927	62,057
Retail Properties of America Inc.	5,718,205	62,043
Corporate Office Properties Trust	2,896,215	60,907
GEO Group Inc.	3,088,094	60,835
Brandywine Realty Trust BOK Financial Corp.	4,707,895 826,095	60,591 60,578
Piedmont Office Realty Trust Inc. Class A	3,548,577	60,468
Navient Corp.	6,846,902	60,321
Washington Federal Inc.	2,252,960	60,177
Kennedy-Wilson Holdings Inc.	3,298,677	59,937
First Citizens BancShares Inc. Class A	158,917	59,920
Columbia Property Trust Inc.	3,079,602	59,590
South State Corp.	986,294	59,128
Apollo Commercial Real Estate Finance Inc.	3,523,469	58,701
First Financial Bancorp Legg Mason Inc.	2,456,549 2,277,568	58,269 58,101
Colony Capital Inc.	12,368,946	57,887
Brookfield Property REIT Inc. Class A	3,503,648	56,409
Argo Group International Holdings Ltd.	838,709	56,403
ProAssurance Corp.	1,388,892	56,333
CoreCivic Inc.	3,155,625	56,265
Terreno Realty Corp.	1,571,005	55,252
First Midwest Bancorp Inc.	2,767,871	54,832
PotlatchDeltic Corp.	1,711,986	54,167
Simmons First National Corp. Class A Acadia Realty Trust	2,244,504 2,168,556	54,160 51,525
CenterState Bank Corp.	2,108,330	51,235
International Bancshares Corp.	1,486,462	51,134
Xenia Hotels & Resorts Inc.	2,966,857	51,030
Agree Realty Corp.	862,302	50,979
Santander Consumer USA Holdings Inc.	2,896,954	50,957
First BanCorp	5,871,087	50,491
QTS Realty Trust Inc. Class A	1,356,968	50,276
Tanger Factory Outlet Centers Inc.	2,476,338	50,072
DiamondRock Hospitality Co. Great Western Bancorp Inc.	5,464,242 1,583,239	49,615 49,476
Independent Bank Corp.	701,594	49,329
* OneMain Holdings Inc.	2,006,609	48.741
Trustmark Corp.	1,711,688	48,663
WesBanco Inc.	1,324,828	48,608
Washington REIT	2,105,002	48,415
Urban Edge Properties	2,896,238	48,135
Four Corners Property Trust Inc.	1,823,570	47,778
Union Bankshares Corp. Retail Opportunity Investments Corp.	1,690,089 2,994,187	47,711 47,548
Navigators Group Inc.	679,411	47,346 47,212
Lexington Realty Trust	5,666,525	46,522
^ Realogy Holdings Corp.	3,156,803	46,342
Banner Corp.	864,965	46,258
*^ LendingTree Inc.	206,515	45,345
Mack-Cali Realty Corp.	2,270,447	44,478
* Eagle Bancorp Inc.	898,518	43,767
United Community Banks Inc.	2,023,002	43,414
Virtu Financial Inc. Class A LTC Properties Inc.	1,684,529	43,393
First Merchants Corp.	1,040,001 1,258,999	43,347 43,146
Invesco Mortgage Capital Inc.	2,905,926	42,078
Moelis & Co. Class A	1,214,021	41,738
* Enstar Group Ltd.	247,912	41,543
SITE Centers Corp.	3,751,130	41,525
* FCB Financial Holdings Inc. Class A	1,230,864	41,332
Northwest Bancshares Inc.	2,433,551	41,224
CareTrust REIT Inc.	2,218,950	40,962

			Market
		Shares	Value (\$000)
	Capitol Federal Financial Inc.	3,180,231	40,612
	Hope Bancorp Inc.	3,394,979	40,264
	National Storage Affiliates Trust	1,502,218	39,749
	National General Holdings Corp.	1,638,542	39,669
*	Pacific Premier Bancorp Inc.	1,554,159	39,662
	LegacyTexas Financial Group Inc.	1,232,263	39,543
	Chesapeake Lodging Trust Towne Bank	1,607,829	39,151
	American Assets Trust Inc.	1,625,892 963,867	38,940 38,719
	Horace Mann Educators Corp.	1,024,132	38,354
	Mercury General Corp.	737,736	38,148
	Renasant Corp.	1,257,880	37,963
	Ladder Capital Corp. Class A	2,450,821	37,914
	ServisFirst Bancshares Inc.	1,174,768	37,440
	Westamerica Bancorporation	672,288	37,433
*	BGC Partners Inc. Class A	7,156,912	37,001
*	Axos Financial Inc.	1,467,554	36,953
	NBT Bancorp Inc. Ameris Bancorp	1,047,300 1,132,497	36,226 35,866
	Provident Financial Services Inc.	1,132,497	35,858
	Waddell & Reed Financial Inc. Class A	1,980,960	35,816
	Heartland Financial USA Inc.	804,597	35,362
	Global Net Lease Inc.	1,999,516	35,231
	Cadence BanCorp Class A	2,091,215	35,091
	Ares Management Corp.	1,951,115	34,691
	Colony Credit Real Estate Inc.	2,147,454	33,908
٨	Industrial Logistics Properties Trust	1,714,265	33,720
	Employers Holdings Inc.	799,874	33,571
	Walker & Dunlop Inc. Hilltop Holdings Inc.	774,072 1,877,119	33,479 33,469
*	PennyMac Financial Services Inc.	1,542,073	32,784
*	Alexander & Baldwin Inc.	1,775,193	32,628
	First Commonwealth Financial Corp.	2,699,557	32,611
	Redwood Trust Inc.	2,144,819	32,322
	Houlihan Lokey Inc. Class A	869,858	32,011
	S&T Bancorp Inc.	841,135	31,829
	First Interstate BancSystem Inc. Class A	866,707	31,687
	HFF Inc. Class A	946,781	31,395
*	WSFS Financial Corp. Seacoast Banking Corp. of Florida	827,969 1,204,699	31,388 31,346
	Newmark Group Inc. Class A	3,896,210	31,248
	Clearway Energy Inc.	1,793,789	30,943
*	NMI Holdings Inc. Class A	1,729,880	30,878
	Universal Insurance Holdings Inc.	808,354	30,653
	Kite Realty Group Trust	2,162,014	30,463
	Kearny Financial Corp.	2,372,114	30,411
	United Fire Group Inc.	538,827	29,878
	Hannon Armstrong Sustainable Infrastructure Capital Inc.	1,564,396	29,802
*	Cannae Holdings Inc.	1,729,439	29,608
	Artisan Partners Asset Management Inc. Class A Tier REIT Inc.	1,327,743 1,422,108	29,356 29,338
	Safety Insurance Group Inc.	356,620	29,175
	Park National Corp.	337,344	28,657
	PennyMac Mortgage Investment Trust	1,527,296	28,438
	Monmouth Real Estate Investment Corp.	2,290,363	28,401
	City Holding Co.	410,240	27,728
*	LendingClub Corp.	10,506,764	27,633
	American National Insurance Co.	217,119	27,626
*	PRA Group Inc.	1,129,523	27,526
^	American Finance Trust Inc.	2,064,094	27,494
	AMERISAFE Inc. Tompkins Financial Corp.	481,971 364,055	27,323 27,308
^	Seritage Growth Properties Class A	837,465	27,308 27,075
	Kinsale Capital Group Inc.	486,748	27,073
		100,7 10	27,017

			Market
			Value
		Shares	(\$000)
	Berkshire Hills Bancorp Inc.	995,476	26,848
	First Busey Corp. James River Group Holdings Ltd.	1,082,806 714,694	26,572 26,115
	Summit Hotel Properties Inc.	2,674,055	26,019
	Heritage Financial Corp.	868,083	25,799
	Getty Realty Corp.	873,351	25,685
	Sandy Spring Bancorp Inc.	818,984	25,667
	Easterly Government Properties Inc. Brookline Bancorp Inc.	1,629,223 1,837,756	25,546 25,398
*	Cushman & Wakefield plc	1,740,911	25,398 25,191
	Investment Technology Group Inc.	825,024	24,949
	Beneficial Bancorp Inc.	1,711,563	24,458
	TFS Financial Corp.	1,510,619	24,366
	Southside Bancshares Inc.	766,872	24,348
	Lakeland Financial Corp. First Bancorp	604,133 741,741	24,262 24,225
	Piper Jaffray Cos.	365,127	24,040
*,^	Redfin Corp.	1,647,740	23,727
*	FGL Holdings	3,558,951	23,703
	RPT Realty	1,981,988	23,685
	Washington Prime Group Inc.	4,868,688	23,662
	Stewart Information Services Corp. New York Mortgage Trust Inc.	566,785 3,964,674	23,465 23,352
	TPG RE Finance Trust Inc.	1,262,700	23,082
	Boston Private Financial Holdings Inc.	2,163,262	22,866
	TriCo Bancshares	673,886	22,771
	OceanFirst Financial Corp.	988,702	22,256
	WisdomTree Investments Inc. Independent Bank Group Inc.	3,345,205 485,735	22,246 22,232
*	Mr Cooper Group Inc.	1,899,690	22,232 22,169
	National Bank Holdings Corp. Class A	714,991	22,072
	BancFirst Corp.	438,680	21,890
	Independence Realty Trust Inc.	2,363,367	21,696
	Chatham Lodging Trust	1,217,811	21,531
	State Bank Financial Corp. OFG Bancorp	997,262 1,306,532	21,531 21,506
	InfraREIT Inc.	1,022,899	21,501
*	Third Point Reinsurance Ltd.	2,220,374	21,404
	ARMOUR Residential REIT Inc.	1,032,618	21,169
	Enterprise Financial Services Corp.	544,461	20,488
*	Ambac Financial Group Inc. Flagstar Bancorp Inc.	1,184,413 770,112	20,419 20,331
*,^	MBIA Inc.	2,272,557	20,271
	Universal Health Realty Income Trust	324,715	19,928
	Granite Point Mortgage Trust Inc.	1,079,663	19,466
	PJT Partners Inc.	487,972	18,914
	Armada Hoffler Properties Inc.	1,339,711	18,836
*	Arbor Realty Trust Inc. World Acceptance Corp.	1,866,357 182,351	18,794 18,647
*	Marcus & Millichap Inc.	540,305	18,549
	United Financial Bancorp Inc.	1,256,563	18,471
*	eHealth Inc.	480,153	18,447
*,^	Encore Capital Group Inc.	770,303	18,102
	Cohen & Steers Inc. Nelnet Inc. Class A	526,316 337,635	18,063
	Central Pacific Financial Corp.	337,635 724,000	17,672 17,629
	NexPoint Residential Trust Inc.	502,471	17,612
	Meta Financial Group Inc.	901,297	17,476
*	Triumph Bancorp Inc.	586,990	17,434
	Meridian Bancorp Inc.	1,211,930	17,355
	Select Income REIT Hersha Hospitality Trust Class A	2,357,859 979,960	17,354 17,189
	Alexander's Inc.	55,943	17,169
	Lakeland Bancorp Inc.	1,148,531	17,010

			Market
			Value
		Shares	(\$000)
	Clearway Energy Inc. Class A	997,692	16,881
	Stock Yards Bancorp Inc.	511,307	16,771 16,737
	Washington Trust Bancorp Inc. National Western Life Group Inc. Class A	352,140 55,028	16,737
	Bryn Mawr Bank Corp.	478,581	16,463
	FBL Financial Group Inc. Class A	249,643	16,389
	Carolina Financial Corp.	545,284	16,135
*	Columbia Financial Inc.	1,054,952	16,130
	Amalgamated Bank Class A	826,909	16,125
	Hamilton Lane Inc. Class A	430,049	15,912
	Capstead Mortgage Corp.	2,385,028	15,908
	TrustCo Bank Corp. NY	2,303,079	15,799
	Investors Real Estate Trust	319,112	15,659
*	National Commerce Corp.	431,113	15,520
	Saul Centers Inc. Urstadt Biddle Properties Inc. Class A	325,533 796,328	15,372 15,305
	Banc of California Inc.	1,144,952	15,239
*	Enova International Inc.	782,084	15,219
	Hanmi Financial Corp.	766,901	15,108
	Preferred Apartment Communities Inc. Class A	1,054,708	14,829
	Univest Corp. of Pennsylvania	686,652	14,811
	Community Trust Bancorp Inc.	373,578	14,797
*	Allegiance Bancshares Inc.	456,248	14,769
	iStar Inc.	1,609,964	14,763
	State Auto Financial Corp.	430,615	14,658
	Gladstone Commercial Corp. Oritani Financial Corp.	809,849 982,982	14,513 14,499
	Community Healthcare Trust Inc.	500,584	14,432
	Fidelity Southern Corp.	552,164	14,367
	Flushing Financial Corp.	658,776	14,183
	Virtus Investment Partners Inc.	177,557	14,103
	Dynex Capital Inc.	2,462,819	14,087
	ConnectOne Bancorp Inc.	762,036	14,075
	Northfield Bancorp Inc.	1,036,121	14,039
	Horizon Bancorp Inc.	888,504	14,021
	German American Bancorp Inc.	492,994	13,690
	KKR Real Estate Finance Trust Inc. Cherry Hill Mortgage Investment Corp.	712,122 776,802	13,637 13,625
	RE/MAX Holdings Inc. Class A	442,364	13,603
*	Customers Bancorp Inc.	744,019	13,541
	FB Financial Corp.	385,596	13,504
*	INTL. FCStone Inc.	368,484	13,479
*	HomeStreet Inc.	634,778	13,476
*	Focus Financial Partners Inc. Class A	507,971	13,375
	Camden National Corp.	368,066	13,239
*	St. Joe Co.	972,227	12,804
	Bank of Marin Bancorp Blue Hills Bancorp Inc.	308,750	12,733
	Great Southern Bancorp Inc.	590,770 273,528	12,607 12,591
	Dime Community Bancshares Inc.	739,946	12,564
	Whitestone REIT	1,020,362	12,510
	Peoples Bancorp Inc.	412,804	12,425
*	TriState Capital Holdings Inc.	637,142	12,399
*	Veritex Holdings Inc.	575,911	12,313
	Essential Properties Realty Trust Inc.	881,248	12,196
	Jernigan Capital Inc.	611,049	12,111
	People's Utah Bancorp	400,875	12,086
,	Diamond Hill Investment Group Inc.	80,537	12,036
*	CBTX Inc.	408,356	12,006
	Willscot Corp. Class A Guaranty Bancorp	1,270,417 573,556	11,967 11,901
*	Equity Bancshares Inc. Class A	336,170	11,850
	First Community Bankshares Inc.	368,033	11,586
	Exantas Capital Corp.	1,141,934	11,442
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			Market
			Value
		Shares	(\$000)
^	Innovative Industrial Properties Inc.	251,136	11,399
	Federal Agricultural Mortgage Corp.	188,345	11,384
*	First Foundation Inc. Western New England Bancorp Inc.	876,479 1,112,193	11,272 11,166
	Bridge Bancorp Inc.	436,514	11,127
	RMR Group Inc. Class A	207,064	10,991
	AG Mortgage Investment Trust Inc.	687,937	10,959
	Green Bancorp Inc.	638,053	10,936
	First Defiance Financial Corp.	442,359	10,842
	Opus Bank	553,005	10,833
	Independent Bank Corp.	512,551	10,774
	First of Long Island Corp.	538,407	10,741
	Heritage Commerce Corp.	942,902	10,693
	Mercantile Bank Corp. HomeTrust Bancshares Inc.	378,059 406,983	10,684 10,655
	HCI Group Inc.	208,584	10,598
	CorEnergy Infrastructure Trust Inc.	320,047	10,587
	City Office REIT Inc.	1,031,536	10,573
	First Financial Corp.	261,780	10,510
	QCR Holdings Inc.	327,012	10,494
	UMH Properties Inc.	886,061	10,491
	Waterstone Financial Inc.	624,171	10,461
	Retail Value Inc.	405,762 2,534,507	10,383
	Ashford Hospitality Trust Inc. Arrow Financial Corp.	2,534,507	10,138 10,125
	Preferred Bank	231,072	10,125
*	Bancorp Inc.	1,252,482	9,970
	United Community Financial Corp.	1,125,899	9,964
*	BSB Bancorp Inc.	351,369	9,859
	Anworth Mortgage Asset Corp.	2,436,383	9,843
^	Orchid Island Capital Inc.	1,539,246	9,836
	Peapack Gladstone Financial Corp.	389,882	9,817
	Midland States Bancorp Inc.	437,049	9,764
	One Liberty Properties Inc. United Insurance Holdings Corp.	401,408 584,456	9,722 9,714
^	Cambridge Bancorp	115,395	9,607
*	Southern First Bancshares Inc.	296,967	9,524
	Republic Bancorp Inc. Class A	245,355	9,500
*	Nicolet Bankshares Inc.	192,766	9,407
	First Mid-Illinois Bancshares Inc.	294,415	9,398
	PCSB Financial Corp.	480,397	9,397
*	Atlantic Capital Bancshares Inc.	573,091	9,382
*	EZCORP Inc. Class A	1,197,858 708,994	9,259 9,245
	Ares Commercial Real Estate Corp. Live Oak Bancshares Inc.	623,479	9,234
	Old Second Bancorp Inc.	709,190	9,219
	Braemar Hotels & Resorts Inc.	1,015,681	9,070
	CatchMark Timber Trust Inc. Class A	1,269,530	9,014
	Financial Institutions Inc.	347,800	8,938
	Territorial Bancorp Inc.	341,380	8,869
	Southern Missouri Bancorp Inc.	258,149	8,751
*	Cowen Inc. Class A	655,726	8,747
	First Bancshares Inc.	286,724	8,673 8,672
	BBX Capital Corp. Class A BankFinancial Corp.	1,513,491 575,378	8,602
	Old Line Bancshares Inc.	326,703	8,599
	Spirit MTA REIT	1,197,115	8,535
	Consolidated-Tomoka Land Co.	162,227	8,517
*,^	Citizens Inc. Class A	1,116,397	8,395
*	On Deck Capital Inc.	1,413,073	8,337
	Farmers & Merchants Bancorp Inc.	216,124	8,319
,	Heritage Insurance Holdings Inc.	553,840	8,153
*	CBL & Associates Properties Inc. Franklin Financial Network Inc.	4,212,984	8,089 9,071
	FIGURUU FUUMUCIA INELWOLK INC.	306,056	8,071

		Market
	Shares	Value (\$000)
* Byline Bancorp Inc.	483,477	8,055
* Baycom Corp.	348,485	8,047
Global Indemnity Ltd.	220,630	7,993
Merchants Bancorp	399,396	7,972
CNB Financial Corp.	346,111	7,943
* FRP Holdings Inc. Bar Harbor Bankshares	171,184 346,732	7,876 7,777
Farmers National Banc Corp.	597,818	7,777 7,616
Oppenheimer Holdings Inc. Class A	297,174	7,593
EMC Insurance Group Inc.	233,713	7,444
FedNat Holding Co.	373,411	7,438
Civista Bancshares Inc.	418,560	7,291
* Republic First Bancorp Inc.	1,211,736	7,234
Bluerock Residential Growth REIT Inc. Class A	799,024	7,207
Northrim BanCorp Inc.	218,280	7,175
1st Source Corp. Access National Corp.	175,467 331,100	7,078 7,062
*Access National Corp. *A Health Insurance Innovations Inc. Class A	264,035	7,062
Sierra Bancorp	293,688	7,057
Peoples Financial Services Corp.	159,880	7,044
Citizens & Northern Corp.	264,000	6,978
MedEquities Realty Trust Inc.	1,019,784	6,975
*^ Goosehead Insurance Inc. Class A	262,558	6,903
Arlington Asset Investment Corp. Class A	952,620	6,897
Shore Bancshares Inc.	465,697	6,771
Gladstone Land Corp. Bankwell Financial Group Inc.	588,497 234,973	6,756 6,746
MidWestOne Financial Group Inc.	270,149	6,708
Hingham Institution for Savings	33,805	6,685
Westwood Holdings Group Inc.	194,695	6,620
First Internet Bancorp	320,945	6,560
SB One Bancorp	319,900	6,539
* Select Bancorp Inc.	522,733	6,471
Enterprise Bancorp Inc.	200,848	6,459
Business First Bancshares Inc. * SmartFinancial Inc.	264,332	6,405
* Regional Management Corp.	349,521 264,565	6,386 6,363
Home Bancorp Inc.	179,670	6,360
ACNB Corp.	161.936	6,356
Ready Capital Corp.	454,902	6,291
First Bancorp Inc.	238,426	6,271
Global Medical REIT Inc.	705,290	6,270
Marlin Business Services Corp.	280,788	6,270
West Bancorporation Inc.	328,083	6,263
Investar Holding Corp. Guaranty Bancshares Inc.	251,947 208,525	6,248 6,218
Great Ajax Corp.	514,449	6,199
Reliant Bancorp Inc.	268,083	6,177
Origin Bancorp Inc.	179,690	6,124
* Howard Bancorp Inc.	427,766	6,117
American National Bankshares Inc.	208,585	6,114
Capital City Bank Group Inc.	261,754	6,075
Safety Income & Growth Inc.	317,882	5,979
First Choice Bancorp	264,120	5,969
Protective Insurance Corp. Class B National Bankshares Inc.	345,870 157,368	5,759 5,733
Southern National Bancorp of Virginia Inc.	433,287	5,733 5,728
Ladenburg Thalmann Financial Services Inc.	2,456,137	5,723
SI Financial Group Inc.	448,844	5,723
* HarborOne Bancorp Inc.	357,784	5,685
* Safeguard Scientifics Inc.	655,108	5,647
*^ Spirit of Texas Bancshares Inc.	245,117	5,584
First Bank	459,654	5,571
Clipper Realty Inc.	425,846	5,566

Bridgewater Bancshares Inc. 52,355 5,538 Macatawa Bank Corp. 573,928 5,538 Macatawa Bank Corp. 573,928 5,538 Macatawa Bank Corp. 573,928 5,538 Macatawa Bank Corp. 31,018 5,848 Kingstone Cos. Inc. 300,465 5,478 5,530				Market
Birdgewater Bancshres Inc.			Shares	Value (\$000)
Macitawa Bank Corp. 573 928 5.52* Investors Title Co. 310,188 5.484 Kingstone Cos. Inc. 309,465 5.472 P. S Bancopy Inc. 125,760 5.38 National Energy Services Beurited Corp. 612,133 5.03 Missourh Bancopy Inc. 472,475 5.00 Billington Residential Mortgage REIT 488,405 5.00 Ellington Residential Mortgage REIT 488,405 5.00 Bank of Princeton 177,186 4,94 Owens Realty Mortgage Inc. 260,122 4,88 Liptere Inc. 878,801 4,88 Codonus Valley Bancorp Inc. 277,696 4,83 Codonus Valley Bancorp Inc. 816,856 4,70 Robertiew Bancorp Inc. 816,856 4,70 Real Bancorp 816,856 4,70 Parms Woods Bancorp Inc. 13,486 4,70 RBB Bancarp 28,637 4,88 Parms Woods Bancorp Inc. 13,486 4,70 BB Bancarp Inc. 28,837 4,88 First	*	Bridgewater Bancshares Inc		
Investors Title Co. 33,0465 5,474				
FS Bancop Inc. 125,780 5.936 Central Valley Community Bancorp 284,721 5.377 National Energy Services Reunited Corp. 6112,134 5.301 Bank of Commerce Holding 469,361 5.003 MulSouth Bancorp Inc. 472,475 5.000 First Business Financial Services Inc. 266,678 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage Inc. 200,122 4.881 Firther Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 227,696 4.938 Firther Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 388,885 4.700 Summit Financial Group Inc. 348,885 4.800 Financial Group Inc. 348,885 4.800 MST Financial Group Inc. 316,885 4.800 Mst Financial Group Inc. 316,895 4.800 Mst Financial Group Inc. 316,895 3.900 Mst Financial Group Inc. 318,895 3.900 Mst Financial Group Inc. 318,895 3.900 Financial Financial Group Inc. 318,89		· ·		5,480
FS Bancop Inc. 125,780 5.936 Central Valley Community Bancorp 284,721 5.377 National Energy Services Reunited Corp. 6112,134 5.301 Bank of Commerce Holding 469,361 5.003 MulSouth Bancorp Inc. 472,475 5.000 First Business Financial Services Inc. 266,678 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage REIT 489,405 5.000 Ellington Residential Mortgage Inc. 200,122 4.881 Firther Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 227,696 4.938 Firther Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 276,696 4.931 Codorus Valley Bancorp Inc. 388,885 4.700 Summit Financial Group Inc. 348,885 4.800 Financial Group Inc. 348,885 4.800 MST Financial Group Inc. 316,885 4.800 Mst Financial Group Inc. 316,895 4.800 Mst Financial Group Inc. 316,895 3.900 Mst Financial Group Inc. 318,895 3.900 Mst Financial Group Inc. 318,895 3.900 Financial Financial Group Inc. 318,89		Kingstone Cos. Inc.	309,465	5,474
*** National Energy Services Reunited Corp. 612,134 5,203 Bank of Commerce Holdings 489,361 5,038 MidSouth Bencorp Inc. 256,678 5,000 First Business Financial Services Inc. 256,678 5,000 Ellington Residential Mortgage REIT 489,405 5,000 Bank of Princeton 177,186 4,940 Owers Realty Mortgage Inc. 260,122 4,888 Tiptere Inc. 870,301 4,886 Codious Valley Bancorp Inc. 227,696 4,838 Century Bancorp Inc. 646,850 4,702 Kentury Bancorp Inc. 466,850 4,702 Summit Financial Group Inc. 426,850 4,702 RBB Bancorp 485,651 4,52 BB Sancorp 485,651 4,52 First Northwest Bencorp 305,012 4,52 Matroposition Bank Holding Corp. 143,434 4,22 Independence Holding Corp. 123,853 4,36 Matroposition Bank Holding Corp. 123,853 4,36 Mittage First Financial Long. 207,745			125,760	5,393
Bank of Commerce Holdings		Central Valley Community Bancorp	284,721	5,373
MisSouth Bancorp Inc. 272,475 5,000 Ellington Residential Mortgage REIT 489,405 5,000 Bank of Princeton 177,186 4,94 Owens Realty Mortgage Inc. 260,122 4,888 Uptroe Inc. 870,801 4,886 Codrous Valley Bancorp Inc. 227,696 4,886 Cartury Bancorp Inc. 646,850 4,702 Summit Financial Group Inc. 422,966 4,881 Ferria Woods Bancorp Inc. 422,966 4,881 Ferria Morthwest Bancorp Inc. 113,406 4,881 Ferria Northwest Bancorp 305,102 4,222 Mist Financial Crorp 305,102 4,222 First Northwest Bancorp 305,102 4,222 Metropolitain Bank Holding Corp. 133,333 4,303 Independence Holding Cor. 123,853 4,303 Inture Broom Financial Corp. 207,746 4,312 LUNB Corp. 207,746 4,321 LUNB Corp. 20,257 4,281 Unity Bancorp Inc. 10,250,242 4,281	*,^		·	5,301
First Business Financial Services Inc.				5,035
Ellington Residential Mortgage REIT				5,008
Bank of Princeton 177,186 4,945 Owens Really Mortgage Inc. 870,801 4,886 Tiptree Inc. 870,801 4,886 Condrus Valley Bancorp Inc. 222,7896 4,835 Century Bancorp Inc. 646,850 4,705 Summit Financial Group Inc. 242,956 4,991 Penns Woods Bancorp Inc. 242,956 4,991 RBB Bancorp 258,037 4,536 MBT Financial Corp. 258,037 4,532 First Northwest Bancorp 305,012 4,522 Independence Holding Corp. 123,853 4,362 Independence Holding Corp. 123,853 4,362 Altsource Portfolio Solutions SA 193,772 4,358 Unity Bancorp Inc. 207,745 4,311 LONB Corp. 282,576 4,281 LONB Corp. 282,576 4,281 LONB Corp. 282,576 4,281 LONB Corp. 282,576 4,281 LONB Corp. 303,038 4,224 NI Holdings Inc. 268,788			·	
Dwess Realty Mortgage Inc.				
Tiptoe Inc.				,
Codorus Valley Bancorp Inc. 277,696 4,783 Century Bencorp Inc. 646,880 4,705 Riverview Bancorp Inc. 646,880 4,705 Summit Financial Group Inc. 113,486 4,861 Penns Woods Bancorp Inc. 113,486 4,861 RBB Bancorp 286,037 4,523 MBT Financial Corp. 486,591 4,525 First Northwest Bancorp 305,012 4,522 First Northwest Bancorp 143,434 4,225 Independence Holding Corp. 143,434 4,225 Independence Holding Corp. 123,853 4,366 Valisourus Portfolio Solutions SA 133,772 4,358 Unity Bancorp Inc. 207,745 4,211 MutualFirst Financial Inc. 161,725 4,291 LCNB Corp. 282,576 4,281 Owen Financial Corp. 31,866,342 4,242 CAF Financial Survices Inc. 161,725 4,293 LCNB Corp. 288,788 4,222 CAF Financial Corp. 18,332 4,181				
Century Bancorp Inc. 47,55 Riverview Bancorp Inc. 242,956 4,755 Summit Financial Group Inc. 242,956 4,891 Penns Woods Bancorp Inc. 113,486 4,565 RBB Bancorp 288,037 4,532 MBT Financial Corp. 486,591 4,522 First Northwest Bancorp 305,012 4,522 Independence Holding Corp. 113,484 4,222 Independence Holding Co. 123,883 4,368 Valits Surce Portfolio Solutions SA 133,772 4,358 Unity Bancorp Inc. 207,745 4,315 Muttablirist Financial Inc. 161,725 4,281 LONG Corp. 30,603 4,247 NI Holdings Inc. 262,576 4,281 LOWE Financial Corp. 31,265,342 4,242 Hallmark Financial Services Inc. 391,289 4,181 Elevate Credit Inc. 390,380 4,166 Elevate Credit Inc. 90,380 4,166 Elevate Credit Inc. 90,380 4,166 Elevate Credit Inc. <td></td> <td></td> <td></td> <td></td>				
Riverview Bancorp Inc. 646,850 4,795 4,895 4,895 2,956 4,895 2,956 4,895 Penns Woods Bancorp Inc. 113,486 4,665 4,805 MBT Financial Corp. 258,0307 4,525 MBT Financial Corp. 305,012 4,525 Metropolitan Bank Holding Corp. 143,434 4,422 1,134,844 4,422 1,134,844 4,422 1,134,844 4,422 1,134,854 4,422 1,134,854 4,422 1,134,874 4,422 1,134,874 4,422 1,134,874 4,422 1,134,874 4,422 1,134,874 4,422 1,134,874 1,134,874 4,422 1,134,874 1,134,874 4,422 1,134,874 1,134,				
Summit Financial Group Inc. 242,956 4,956 RBB Bancorp 258,037 4,556 RBB Bancorp 486,551 4,527 MBT Financial Corp. 486,551 4,527 First Northwest Bancorp 305,012 4,522 Independence Holding Corp. 133,853 4,362 Independence Holding Co. 123,853 4,362 Altisource Portfolio Solutions SA 192,774 4,353 Unity Bancorp Inc. 207,745 4,313 MutualFirst Financial Inc. 161,725 4,282 LONB Corp. 282,576 4,281 I CNB Corp. 282,576 4,281 N Holdings Inc. 268,788 4,222 C&F Financial Corp. 391,289 4,185 Hallmark Financial Services Inc. 391,289 4,185 Elevate Credit Inc. 393,280 4,166 Elevate Credit Inc. 393,280 4,166 Elevate Credit Inc. 393,280 4,161 Enteger Financial Corp. 194,247 4,031 GAIN Capital Holdings I		,		
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RBB Bancorp 458,037 4,524 MBT Financial Corp 446,591 4,525 First Northwest Bancorp 305,012 4,522 Independence Holding Corp. 143,434 4,222 Independence Holding Co. 123,853 4,365 Valisource Portfolio Solutions SA 183,772 4,355 MutualFirst Financial Inc. 207,745 4,351 LCNB Corp. 262,876 4,243 Vowen Financial Corp. 262,876 4,243 NI Holdings Inc. 268,788 4,224 XI Holdings Inc. 268,788 4,224 XI Holdings Inc. 391,289 4,181 Elevate Credit Inc. 390,380 4,186 Imberiand Bancorp Inc. 391,289 4,181 Elevate Credit Inc. 390,380 4,186 Imberiand Bancorp Inc. 262,351 4,09 Integral Holdings Inc. 262,351 4,09 Community Bankers Trust Corp. 55,711 3,97 Orristown Financial Corp. 118,780 3,92 MVB Financial C				,
MBT Financial Corp. 486,891 4,525 First Northwest Bancorp 305,012 4,525 Metropolitan Bank Holding Corp. 143,434 4,425 Independence Holding Co 123,853 4,361 Altisource Portfolio Solutions SA 193,772 4,355 Unity Bancorp Inc. 161,725 4,311 Mutual First Financial Inc. 161,725 4,281 LONB Corp. 3166,342 4,245 Ni Holdings Inc. 268,788 4,225 CXF Financial Corp. 319,289 4,185 Hallmark Financial Services Inc. 391,289 4,185 Elevate Credit Inc. 930,380 4,185 Elevate Credit Inc. 930,380 4,185 Timberland Bancorp Inc. 262,351 4,095 EssAB Bancorp Inc. 651,798 4,015 Community Bankers Trust Corp. 550,711 3,975 Orstown Financial Corp. 118,780 3,925 Nowood Financial Corp. 118,780 3,925 Vavas Bancorp Inc. 118,582 3,90 <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
First Northwest Bancorp				4,525
Metropolitan Bank Holding Corp. 143,434 4,425 Independence Holding Co 123,853 4,365 Altisource Portfolio Solutions SA 193,772 4,355 Unity Bancorp Inc. 207,745 4,315 MutualEirst Financial Inc. 161,725 4,293 LOWen Financial Corp. 3166,342 4,244 Ni Holdings Inc. 268,788 4,225 C&F Financial Corp. 79,292 4,211 Hallmark Financial Services Inc. 391,289 4,18 Elevate Credit Inc. 930,380 4,18 Elevate Credit Inc. 930,380 4,18 Timberland Bancorp Inc. 262,351 4,08 Entegra Financial Corp. 184,382 4,112 Entegra Financial Corp. 661,798 4,015 GAIN Capital Holdings Inc. 661,798 4,015 Ormanuity Bankers Trust Corp. 50,711 3,97 Orstown Financial Services Inc. 118,780 3,92 Norwood Financial Corp. 118,780 3,92 Evans Bancorp Inc. 216,592 3,90 Evans Bancorp Inc. 160,875 3,856		· ·	·	4,523
Altsource Portfolio Solutions SA 193,772 4,358 Unity Bancorp Inc. 207,745 4,315 MutualFirst Financial Inc. 161,725 4,297 LONB Corp. 306,634 4,244 Ni Holdings Inc. 268,788 4,224 C&F Financial Corp. 79,292 4,215 Hallmark Financial Services Inc. 391,289 4,185 Elevate Credit Inc. 930,380 4,166 Elevate Credit Inc. 930,380 4,166 ESSA Bancorp Inc. 184,382 4,115 ESSA Bancorp Inc. 262,351 4,099 Entegra Financial Corp. 550,711 3,976 Orstown Financial Services Inc. 184,247 4,031 GAIN Capital Holdings Inc. 651,798 4,015 Orwood Financial Corp. 550,711 3,976 VB Financial Services Inc. 118,780 3,972 MVB Financial Corp. 118,780 3,972 VB Financial Encorp Inc. 160,875 3,855 Evans Bancorp Inc. 150,875 3,856 Parke Bancorp Inc. 159,568 3,731 CB F	*	Metropolitan Bank Holding Corp.	143,434	4,425
Unity Bancorp Inc.		Independence Holding Co.	123,853	4,360
MutualFirst Financial Inc. 161,725 4,297 LCNB Corp. 282,576 4,281 Ocwen Financial Corp. 3,166,342 4,244 Ni Holdings Inc. 268,788 4,225 C&F Financial Corp. 79,292 4,215 Hallmark Financial Services Inc. 391,289 4,183 Elevate Credit Inc. 390,380 4,186 Timberland Bancorp Inc. 184,382 4,112 ESSA Bancorp Inc. 262,351 4,093 GAIN Capital Holdings Inc. 651,798 4,015 Community Bankers Trust Corp. 550,711 3,974 Orrstown Financial Services Inc. 218,245 3,974 Nowcood Financial Corp. 118,780 3,924 MVB Financial Corp. 118,780 3,925 Evans Bancorp Inc. 119,309 3,875 Stratus Properties Inc. 119,309 3,875 Premier Financial Holdings Inc. 257,163 3,83 Capstar Financial Forp. 199,568 3,733 C B Financial Services Inc. 199,568 3,733 For Elevancial Holdings Inc. 259,7163 3,83	*,^	Altisource Portfolio Solutions SA	193,772	4,358
LCNB Corp.			207,745	4,313
Cowen Financial Corp. 3,166,342 4,245 NI Holdings Inc. 268,788 4,225 C&F Financial Corp. 79,292 4,215 Hallmark Financial Services Inc. 391,289 4,185 Elevate Credit Inc. 930,389 4,165 Timberland Bancorp Inc. 184,382 4,115 ESSA Bancorp Inc. 262,351 4,095 Entegra Financial Corp. 651,798 4,015 GAIN Capital Holdings Inc. 651,798 4,015 Community Bankers Trust Corp. 550,711 3,976 Orrstown Financial Corp. 550,711 3,976 Norwood Financial Corp. 218,245 3,977 Norwood Financial Corp. 216,592 3,907 Evans Bancorp Inc. 119,309 3,875 Stratus Properties Inc. 150,875 3,856 Premier Financial Bancorp Inc. 254,210 3,745 Capstar Financial Financial Financial Corp. 199,568 3,735 CB Financial Services Inc. 199,568 3,735 Pidelity D&D Bancorp Inc. 153,373 3,682 Fidelity D&D Bancorp Inc. 153,369			· · · · · · · · · · · · · · · · · · ·	4,297
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Western Asset Mortgage Capital Corp. 389,847 3,251			212,473	3,287
		· ·		3,258
Union Bankshares Inc. 66,943 3,197			· · · · · · · · · · · · · · · · · · ·	3,251
		Union Bankshares Inc.	66,943	3,197

			Market Value
		Shares	(\$000)
	Mackinac Financial Corp.	230,769	3,150
*	Victory Capital Holdings Inc. Class A	297,907	3,045
	Standard AVB Financial Corp.	101,063 149.612	3,020
	1st Constitution Bancorp Middlefield Banc Corp.	68,882	2,982 2,923
	First Guaranty Bancshares Inc.	124,659	2,893
	Ohio Valley Banc Corp.	78.843	2,790
	United Security Bancshares	290,105	2,779
*	Esquire Financial Holdings Inc.	127,152	2,759
	Peoples Bancorp of North Carolina Inc.	108,980	2,666
	BRT Apartments Corp.	232,769	2,663
^	Greene County Bancorp Inc.	84,740	2,637
	Griffin Industrial Realty Inc.	82,237	2,623
*	Trinity Place Holdings Inc.	588,293	2,553
	Provident Financial Holdings Inc.	161,855	2,509
	GAMCO Investors Inc. Class A	142,988	2,415
*	Federal Agricultural Mortgage Corp. Class A Ashford Inc.	41,769	2,380
*	International Money Express Inc.	45,407 194,144	2,357 2,322
	First United Corp.	194,144	2,322
*	Provident Bancorp Inc.	106,602	2,311
	Hawthorn Bancshares Inc.	109,873	2,311
	SB Financial Group Inc.	137,713	2,265
*	MoneyGram International Inc.	1,115,485	2,231
	Sotherly Hotels Inc.	395,197	2,217
	Two River Bancorp	140,881	2,150
	Associated Capital Group Inc. Class A	60,841	2,143
*	Aspen Group Inc.	380,422	2,085
	DNB Financial Corp.	75,391	2,036
	Luther Burbank Corp.	221,229	1,995
	Rafael Holdings Inc. Class B	251,529 156,190	1,995 1,990
	PDL Community Bancorp Old Point Financial Corp.	156,180 91,136	1,990
	Plumas Bancorp	85,785	1,948
*	Tejon Ranch Co.	117,405	1,947
*	Maui Land & Pineapple Co. Inc.	192,941	1,914
*	Randolph Bancorp Inc.	134,594	1,905
	Level One Bancorp Inc.	84,245	1,890
	Greenhill & Co. Inc.	74,717	1,823
	American River Bankshares	131,277	1,812
*	OP Bancorp	198,037	1,757
	MSB Financial Corp.	96,420	1,721
*	Coastal Financial Corp.	111,724	1,702
	AmeriServ Financial Inc.	417,649	1,683
	Greenlight Capital Re Ltd. Class A First Savings Financial Group Inc.	193,563 29,281	1,669 1,521
*	Atlas Financial Holdings Inc.	179,526	1,452
	PB Bancorp Inc.	131,822	1,437
	Global Self Storage Inc.	353,584	1,386
	Plymouth Industrial REIT Inc.	107,097	1,351
*	Nicholas Financial Inc.	124,786	1,298
	Pacific City Financial Corp.	82,828	1,296
	Hunt Cos. Finance Trust Inc.	444,984	1,273
*	Intersections Inc.	341,144	1,259
	Severn Bancorp Inc.	154,641	1,234
	IF Bancorp Inc.	60,847	1,224
	Sterling Bancorp Inc.	173,902	1,209
	Hennessy Advisors Inc.	116,940	1,171
*	Manhattan Bridge Capital Inc. Consumer Portfolio Services Inc.	203,559	1,146 1,145
-	Consumer Portfolio Services Inc. County Bancorp Inc.	380,395 64,508	1,145 1,121
*,^	Siebert Financial Corp.	74,860	1,121
,	Sound Financial Bancorp Inc.	32,075	1,044
	Condor Hospitality Trust Inc.	142,071	979
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			Market
		Shares	Value (\$000)
	Urstadt Biddle Properties Inc.	64,362	972
	Summit State Bank	78,215	921
	Elmira Savings Bank	51,975	907
*	Transcontinental Realty Investors Inc.	30,783	872
^	Manning & Napier Inc.	483,786	851
*	Security National Financial Corp. Class A	161,655	834
	Cedar Realty Trust Inc.	255,503	802
	Bank of South Carolina Corp.	42,728	778 760
	United Bancorp Inc. Eagle Bancorp Montana Inc.	68,932 47,133	769 762
*	Bank7 Corp.	47,123 56,400	762 753
*	FVCBankcorp Inc.	41,458	730
*	Limestone Bancorp Inc.	52,082	717
*,^	Tremont Mortgage Trust	78,746	713
*	Meridian Corp.	42,029	700
	Sachem Capital Corp.	174,987	684
	Pathfinder Bancorp Inc.	48,152	681
^	Pennsylvania REIT	112,447	668
	Bancorp 34 Inc.	44,556	642
	Jason Industries Inc. Winthrop Realty Trust	457,558 562,609	627 613
§	Citizens Community Bancorp Inc.	53,090	579
	Ames National Corp.	22,078	561
*	FFBW Inc.	55,772	559
	Bank of the James Financial Group Inc.	39,730	516
	Citizens First Corp.	23,929	513
	Central Federal Corp.	39,191	458
*	Community First Bancshares Inc.	38,486	448
^	HV Bancorp Inc.	25,024	375
	Ottawa Bancorp Inc.	27,075	361
*	Blue Capital Reinsurance Holdings Ltd. Altisource Asset Management Corp.	59,170 10,419	325 309
*	Broadway Financial Corp.	291,623	309
*	Eagle Financial Bancorp Inc.	19,339	293
§	New York REIT Liquidating LLC	19,100	267
*	National Holdings Corp.	94,636	256
*	Carolina Trust Bancshares Inc.	33,555	254
*	First Western Financial Inc.	20,324	238
	First US Bancshares Inc.	28,987	230
*	Capital Bancorp Inc.	16,948	193
	WVS Financial Corp. HopFed Bancorp Inc.	11,313 12,079	167 161
*	HMN Financial Inc.	8,012	161 157
	Front Yard Residential Corp.	16,487	144
*	JW Mays Inc.	3,714	144
*	Income Opportunity Realty Investors Inc.	12,550	134
*	InterGroup Corp.	4,086	131
*	1347 Property Insurance Holdings Inc.	32,428	130
	Southwest Georgia Financial Corp.	6,366	129
	HomeTown Bankshares Corp.	10,388	123
*	ICC Holdings Inc.	8,802	120
*	FSB Bancorp Inc. CBM Bancorp Inc.	3,139 3,789	53 47
*	National Holdings Corp. Warrants Exp. 01/18/2022	92,151	46
	Asta Funding Inc.	9,729	41
*,^	CPI Card Group Inc.	16,009	37
*	FlexShopper Inc.	41,840	32
	Reven Housing REIT Inc.	8,896	29
	Glen Burnie Bancorp	857	9
*	Novume Solutions Inc.	5,300	3
,	GWG Holdings Inc.	300	3
* *	Unico American Corp. Ditach Holding Corp. Warrents 01/21/2029	2	_
*,^ *,^,§	Ditech Holding Corp. Warrants 01/31/2028 Ditech Holding Corp. Series B Warrants 01/31/2028	43,103 34,201	_
,^^,§	Ditectifficiality Corp. Series o Warrants 01/31/2028	34,201	_

		Market Value
	Shares —	(\$000)
Health Care (13.8%)		129,920,412
Johnson & Johnson	71,605,522	9,240,693
Pfizer Inc.	154,420,822	6,740,469
UnitedHealth Group Inc.	25,701,378	6,402,727
Merck & Co. Inc.	69,465,748	5,307,878
AbbVie Inc. Abbott Laboratories	40,166,516 46,919,307	3,702,951
Abbott Laboratories Amgen Inc.	46,919,307 17,024,650	3,393,673 3,314,189
Medtronic plc	35,956,531	3,270,606
Eli Lilly & Co.	25,470,396	2,947,434
Thermo Fisher Scientific Inc.	10,751,926	2,406,174
Bristol-Myers Squibb Co.	43,606,623	2,266,672
Gilead Sciences Inc.	34,562,485	2,161,883
* Cigna Corp.	10,172,353	1,931,933
Anthem Inc.	6,908,853	1,814,472
* Biogen Inc.	5,383,717	1,620,068
Becton Dickinson and Co.	7,164,357	1,614,273
* Intuitive Surgical Inc.	3,051,625	1,461,484
* Boston Scientific Corp.	36,970,544	1,306,539
Stryker Corp.	7,997,316	1,253,579
Allergan plc	9,010,592	1,204,356
* Celgene Corp.	18,686,460	1,197,615
* Illumina Inc.	3,978,369	1,193,232
* Vertex Pharmaceuticals Inc.	6,830,221	1,131,836
Zoetis Inc.	12,837,361	1,098,108
Humana Inc.	3,664,849	1,049,906
HCA Healthcare Inc. Baxter International Inc.	7,354,905	915,318
* Edwards Lifesciences Corp.	13,501,401 5,585,591	888,662 855,545
* Regeneron Pharmaceuticals Inc.	2,131,171	795,992
* Centene Corp.	5,212,611	601,014
Zimmer Biomet Holdings Inc.	5,447,613	565,026
* Alexion Pharmaceuticals Inc.	5,666,022	551,644
* IQVIA Holdings Inc.	4,546,838	528,206
ResMed Inc.	3,800,873	432,805
* IDEXX Laboratories Inc.	2,304,463	428,676
* Align Technology Inc.	2,028,317	424,790
* BioMarin Pharmaceutical Inc.	4,762,145	405,497
* ABIOMED Inc.	1,142,019	371,202
* Mylan NV	13,073,647	358,218
Cardinal Health Inc.	7,956,181	354,846
* Laboratory Corp. of America Holdings	2,696,555	340,737
Cooper Cos. Inc.	1,310,589	333,545
* Henry Schein Inc.	4,066,395	319,293
Teleflex Inc. * Hologic Inc.	1,228,601 7,712,857	317,569
* WellCare Health Plans Inc.	1,333,573	316,998 314,843
* Incyte Corp.	4,831,281	307,221
Quest Diagnostics Inc.	3,636,150	302,782
* DexCom Inc.	2,370,916	284,036
* Varian Medical Systems Inc.	2,425,028	274,780
Universal Health Services Inc. Class B	2,268,892	264,462
STERIS plc	2,250,941	240,513
Dentsply Sirona Inc.	5,925,357	220,483
* Exact Sciences Corp.	3,280,796	207,018
* Sarepta Therapeutics Inc.	1,787,400	195,059
West Pharmaceutical Services Inc.	1,973,102	193,423
* Jazz Pharmaceuticals plc	1,525,406	189,089
* Molina Healthcare Inc.	1,582,038	183,864
* Ionis Pharmaceuticals Inc.	3,295,568	178,158
* Alnylam Pharmaceuticals Inc.	2,421,355	176,541
* Neurocrine Biosciences Inc.	2,417,791	172,654

			Market
		Shares	Value (\$000)
*	DaVita Inc.	3,316,773	170,681
	Hill-Rom Holdings Inc.	1,790,045	158,508
*	Seattle Genetics Inc.	2,774,935	157,228
*	Exelixis Inc.	7,983,594	157,037
	Encompass Health Corp.	2,500,834	154,301
*	Nektar Therapeutics Class A	4,615,075	151,698
	Bio-Techne Corp.	1,003,939	145,290
*	Charles River Laboratories International Inc.	1,282,751	145,182
*	Bluebird Bio Inc.	1,460,355	144,867
	PRA Health Sciences Inc.	1,558,010	143,275
*	Haemonetics Corp. Masimo Corp.	1,376,653 1,269,076	137,734 136,261
*	Bio-Rad Laboratories Inc. Class A	563,021	130,745
	Perrigo Co. plc	3,261,057	126,366
*	Insulet Corp.	1,577,098	125,095
*	Alkermes plc	4,145,299	122,328
	Chemed Corp.	426,039	120,688
*	United Therapeutics Corp.	1,107,490	120,606
*	Catalent Inc.	3,867,110	120,576
*	ICU Medical Inc.	519,622	119,321
*	Sage Therapeutics Inc.	1,187,102	113,712
*	Loxo Oncology Inc.	733,031	102,676
*	Penumbra Inc.	825,478	100,873
*	Amedisys Inc.	852,491	99,835
	FibroGen Inc.	2,033,470	94,109
*	HealthEquity Inc. Wright Medical Group NV	1,577,603 3,335,471	94,104 90.792
*,^	Teladoc Health Inc.	1,775,225	87,998
*	Globus Medical Inc.	2,017,623	87,323
*	Horizon Pharma plc	4,465,780	87,261
*	Syneos Health Inc.	2,194,211	86,342
*	Integra LifeSciences Holdings Corp.	1,813,280	81,779
*	Array BioPharma Inc.	5,676,501	80,890
	Bruker Corp.	2,713,121	80,770
^	Healthcare Services Group Inc.	1,965,716	78,982
*	Merit Medical Systems Inc.	1,385,806	77,342
*,^	TESARO Inc.	1,023,522	75,997
*	MEDNAX Inc.	2,274,266	75,051
	LHC Group Inc.	790,662	74,227
*,^	Neogen Corp. Ligand Pharmaceuticals Inc.	1,298,761 539,705	74,029 73,238
	Cantel Medical Corp.	946,748	70,485
*	Emergent BioSolutions Inc.	1,153,015	68,351
*	NuVasive Inc.	1,363,090	67,555
*	Novocure Ltd.	1,980,786	66,317
*	HMS Holdings Corp.	2,229,576	62,718
*	Immunomedics Inc.	4,300,482	61,368
*	Omnicell Inc.	999,239	61,193
*	Agios Pharmaceuticals Inc.	1,319,458	60,840
*,^	Inogen Inc.	484,765	60,193
*	Acadia Healthcare Co. Inc.	2,337,952	60,109
*	Blueprint Medicines Corp.	1,112,494	59,975
	Intercept Pharmaceuticals Inc.	590,185	59,485
	Myriad Genetics Inc.	1,993,178	57,942
*	Avanos Medical Inc. Repligen Corp.	1,258,848 1,046,206	56,384 55,177
*	Global Blood Therapeutics Inc.	1,335,655	54,829
*	Ultragenyx Pharmaceutical Inc.	1,215,699	52,859
*	Tandem Diabetes Care Inc.	1,376,852	52,279
*	Glaukos Corp.	911,108	51,177
*	Arena Pharmaceuticals Inc.	1,312,509	51,122
	Ensign Group Inc.	1,312,664	50,918
*	Halozyme Therapeutics Inc.	3,439,206	50,316
*	NxStage Medical Inc.	1,752,275	50,150

			Market Value
		Shares	(\$000)
*	BioTelemetry Inc.	838,416	50,070
*	Heron Therapeutics Inc.	1,877,691	48,707
*	ACADIA Pharmaceuticals Inc.	3,006,124	48,609
*	Amicus Therapeutics Inc. Tenet Healthcare Corp.	5,054,788 2,731,936	48,425 46,825
*	Acceleron Pharma Inc.	2,731,936 1,045,281	46,825 45,522
*	Xencor Inc.	1,253,822	45,322
*	Pacira Pharmaceuticals Inc.	1,046,125	45,004
	CONMED Corp.	699,434	44,904
*	Aerie Pharmaceuticals Inc.	1,213,794	43,818
*	Supernus Pharmaceuticals Inc.	1,314,378	43,664
*	MyoKardia Inc.	892,480	43,607
*	PTC Therapeutics Inc.	1,270,262	43,595
*	Quidel Corp.	885,117	43,211
*	Select Medical Holdings Corp.	2,799,775	42,977
	Patterson Cos. Inc.	2,153,418	42,336
*	Prestige Consumer Healthcare Inc.	1,365,134	42,155
	iRhythm Technologies Inc.	575,688	39,999
*	Endo International plc Ironwood Pharmaceuticals Inc. Class A	5,393,029	39,369
*,^	Zogenix Inc.	3,755,123 1,064,486	38,903 38,811
*	Amneal Pharmaceuticals Inc.	2,851,013	38,574
*	Medpace Holdings Inc.	704,306	37,279
*	STAAR Surgical Co.	1,161,134	37,052
*	Genomic Health Inc.	574,945	37,032
*,^	Corcept Therapeutics Inc.	2,766,950	36,966
*	Magellan Health Inc.	646,685	36,790
*	REGENXBIO Inc.	863,173	36,210
*	Atara Biotherapeutics Inc.	1,032,865	35,882
*	Mallinckrodt plc	2,221,839	35,105
*	Vanda Pharmaceuticals Inc.	1,319,418	34,476
*	Medicines Co.	1,775,874	33,990
*	AnaptysBio Inc.	532,673	33,979
	US Physical Therapy Inc.	330,515	33,828
*,^	Denali Therapeutics Inc.	1,637,147	33,823
*	Cambrex Corp. Spark Therapeutics Inc.	892,400 854.648	33,697 33,451
*	Brookdale Senior Living Inc.	4,973,654	33,323
*,^	Portola Pharmaceuticals Inc.	1,695,900	33,104
*	Mirati Therapeutics Inc.	775,681	32,904
*	Sangamo Therapeutics Inc.	2,694,131	30,929
*	Innoviva Inc.	1,771,272	30,909
*,^	Theravance Biopharma Inc.	1,172,832	30,013
*	NeoGenomics Inc.	2,338,951	29,494
*	AtriCure Inc.	963,248	29,475
*	Nevro Corp.	757,908	29,475
*,^	Esperion Therapeutics Inc.	639,839	29,433
*	Natus Medical Inc.	842,426	28,668
	WageWorks Inc.	1,044,706	28,374
*	Momenta Pharmaceuticals Inc. Pacific Biosciences of California Inc.	2,517,257 3,723,343	27,791 27,553
*	Enanta Pharmaceuticals Inc.	383,667	27,175
*	lovance Biotherapeutics Inc.	3,062,190	27,175
	Atrion Corp.	36,501	27,100
*	Insmed Inc.	2,016,978	26,463
*	Tivity Health Inc.	1,063,706	26,391
*	Reata Pharmaceuticals Inc. Class A	467,977	26,254
*,^	Arrowhead Pharmaceuticals Inc.	2,097,105	26,046
*	Aimmune Therapeutics Inc.	1,087,990	26,025
*	Editas Medicine Inc.	1,134,307	25,805
	Luminex Corp.	1,115,973	25,790
*	Madrigal Pharmaceuticals Inc.	226,838	25,569
*	Orthofix Medical Inc.	474,284	24,895
*	Cardiovascular Systems Inc.	868,081	24,732

			Market Value
		Shares	(\$000)
*,^	OPKO Health Inc.	8,166,325	24,581
*	Retrophin Inc.	1,082,347	24,494
*	CryoLife Inc.	861,936	24,462
*,^	Clovis Oncology Inc.	1,340,670	24,078
*	Varex Imaging Corp. BioCryst Pharmaceuticals Inc.	994,260 2,865,749	23,544 23,127
*	Spectrum Pharmaceuticals Inc.	2,508,536	23,127
*	CareDx Inc.	868,091	21,824
*	Intersect ENT Inc.	760,126	21,420
*	Invitae Corp.	1,853,293	20,497
*	Vericel Corp.	1,136,862	19,781
*,^	Radius Health Inc.	1,198,216	19,759
	National HealthCare Corp.	249,103	19,542
*	AngioDynamics Inc.	968,801	19,502
*	Revance Therapeutics Inc.	966,975	19,465
*	Acorda Therapeutics Inc.	1,247,713	19,439
*	Audentes Therapeutics Inc.	907,372	19,345
*	OraSure Technologies Inc.	1,605,501	18,752
*	ImmunoGen Inc.	3,896,604	18,704
*	Tactile Systems Technology Inc.	409,526	18,654
	Meridian Bioscience Inc.	1,067,715	18,536
*,^	TherapeuticsMD Inc. Novayax Inc.	4,856,609 10,014,525	18,504
*	R1 RCM Inc.	2,307,869	18,427 18,348
*	Cerus Corp.	3,567,573	18,088
*	Amphastar Pharmaceuticals Inc.	905,151	18,013
*	Puma Biotechnology Inc.	875,767	17,822
*	AxoGen Inc.	861,207	17,594
*	Addus HomeCare Corp.	258,595	17,553
*,^	Allogene Therapeutics Inc.	636,393	17,138
*	Hanger Inc.	878,938	16,656
*	Rhythm Pharmaceuticals Inc.	615,839	16,554
*	Inspire Medical Systems Inc.	388,653	16,421
	HealthStream Inc.	666,662	16,100
*	Natera Inc.	1,145,560	15,992
*	Surmodics Inc.	336,417	15,899
*	Heska Corp.	180,506	15,542
*	Fate Therapeutics Inc.	1,201,647	15,417
	Alder Biopharmaceuticals Inc.	1,501,172	15,387
*,^	Dynavax Technologies Corp.	1,659,735	15,187
*	Lantheus Holdings Inc. CorVel Corp.	962,664 238,067	15,066 14,693
*	Dicerna Pharmaceuticals Inc.	1,317,647	14,093
*,^	Omeros Corp.	1,251,908	13,946
*	MacroGenics Inc.	1,072,034	13,615
*,^	Athenex Inc.	1,069,068	13,566
*	Coherus Biosciences Inc.	1,486,189	13,450
*	Guardant Health Inc.	354,325	13,319
*	Intra-Cellular Therapies Inc.	1,152,383	13,126
*	AMAG Pharmaceuticals Inc.	842,524	12,798
*	BioScrip Inc.	3,537,123	12,628
*	Collegium Pharmaceutical Inc.	728,760	12,513
*	Cymabay Therapeutics Inc.	1,584,195	12,468
*	Eagle Pharmaceuticals Inc.	308,516	12,430
*,^	ViewRay Inc.	2,008,559	12,192
*,^	Akebia Therapeutics Inc.	2,203,476	12,185
*	Anika Therapeutics Inc.	361,395	12,146
	Kura Oncology Inc.	855,015 1 206 400	12,004
*,^	Intrexon Corp. Ra Pharmaceuticals Inc.	1,806,499 636,790	11,815
*,^	Apollo Medical Holdings Inc.	581,536	11,590 11,543
*	Veracyte Inc.	913,280	11,543
*,^	Allakos Inc.	219,089	11,452
*,^	Cara Therapeutics Inc.	871,372	11,328
	outa morapoutioo iiio.	071,372	11,020

			Market Value
		Shares	(\$000)
*	PDL BioPharma Inc.	3,859,491	11,193
*	Intellia Therapeutics Inc.	802,918	10,960
*,^ *,^	SIGA Technologies Inc. Akcea Therapeutics Inc.	1,381,634	10,915
*	G1 Therapeutics Inc.	350,053 542,256	10,551 10,384
*	PetIQ Inc. Class A	442,206	10,334
*	RadNet Inc.	1,008,011	10,251
*	NanoString Technologies Inc.	688.635	10,212
	Owens & Minor Inc.	1,592,040	10,078
*	Triple-S Management Corp. Class B	573,946	9,981
*	Antares Pharma Inc.	3,624,936	9,860
	LeMaitre Vascular Inc.	412,954	9,762
*	BioSpecifics Technologies Corp.	160,625	9,734
	Utah Medical Products Inc.	116,705	9,696
*	ANI Pharmaceuticals Inc.	211,204	9,508
*,^	Flexion Therapeutics Inc.	837,678	9,483
	ChemoCentryx Inc.	859,605	9,378
*,^	Rocket Pharmaceuticals Inc.	631,991	9,366
*	Inovio Pharmaceuticals Inc. OrthoPediatrics Corp.	2,333,947 259,351	9,336 9,046
*	Kindred Biosciences Inc.	815,382	8,928
*,^	Viking Therapeutics Inc.	1,157,904	8,858
*	GlycoMimetics Inc.	921,551	8,727
*	Apellis Pharmaceuticals Inc.	648,906	8,559
*	Fluidigm Corp.	991,696	8,548
*,^	Accelerate Diagnostics Inc.	729,004	8,384
*	Akorn Inc.	2,447,255	8,296
*	Cytokinetics Inc.	1,295,539	8,188
*	Aratana Therapeutics Inc.	1,335,173	8,185
*	Deciphera Pharmaceuticals Inc.	389,636	8,178
*	Kiniksa Pharmaceuticals Ltd. Class A	289,216	8,124
*,^	UNITY Biotechnology Inc.	499,394	8,120
*	Tricida Inc.	339,342	8,002
*,^	Corbus Pharmaceuticals Holdings Inc.	1,326,754	7,748
*,^	Senseonics Holdings Inc.	2,979,621	7,717
*	Assembly Biosciences Inc. GenMark Diagnostics Inc.	338,933 1,562,781	7,667 7,595
*,^	Arcus Biosciences Inc.	704,031	7,595 7,582
*	Sientra Inc.	586,573	7,455
*	Civitas Solutions Inc.	418,033	7,320
*	SeaSpine Holdings Corp.	398,127	7,262
*	Concert Pharmaceuticals Inc.	575,573	7,223
*,^	Osiris Therapeutics Inc.	528,043	7,129
*	Stemline Therapeutics Inc.	739,542	7,026
*	Cutera Inc.	408,450	6,952
*	RTI Surgical Inc.	1,867,810	6,911
*,^	MediciNova Inc.	831,085	6,790
*,^	Homology Medicines Inc.	296,849	6,638
*	Assertio Therapeutics Inc.	1,762,414	6,362
*,^	CytoSorbents Corp.	763,056	6,165
	Kadmon Holdings Inc.	2,916,260	6,066
*,^	Voyager Therapeutics Inc. Verastem Inc.	643,742 1,768,068	6,051 5,941
*	BioDelivery Sciences International Inc.	1,768,068	5,941
*	Minerva Neurosciences Inc.	877,166	5,912
*,^	Eloxx Pharmaceuticals Inc.	483,525	5,807
*	ArQule Inc.	2,091,210	5,793
*	Avid Bioservices Inc.	1,407,602	5,771
*,^	Scholar Rock Holding Corp.	245,953	5,650
*	Bovie Medical Corp.	847,416	5,491
*	Aldeyra Therapeutics Inc.	659,883	5,477
*,^	Adamas Pharmaceuticals Inc.	630,847	5,387
*	Catalyst Pharmaceuticals Inc.	2,759,205	5,298
*	Capital Senior Living Corp.	778,459	5,294

Surgar Inc Surgar Partners Inc Surgar S			Market Value
Surgery Partners Inc. 527,837 AVEO Pharmaceuticals Inc. 1,3173,033 MEI Pharma Inc. 1,23,79 Rubius Therapeutics Inc. 479,978 Rubius Therapeutics Inc. 30,664 Mannkind Corp. 4,576,191 CASI Pharmaceuticals Inc. 1,169,325 Athersys Inc. 1,169,325 Athersys Inc. 490,070 Currents Sharmaceuticals Inc. 490,070 Ouanterix Corp. 247,992 Solid Biosciences Inc. 167,543 Cirrentics Pharmaceuticals Inc. 870,696 Zafgen Inc. 870,696 Invocare Corp. 997,707 BioLife Solutions Inc. 152,588 Invocare Corp. 172,166 Krystal Biotech Inc. 1,112,231 Aberon Therapeutics Inc. 1,212,23 Aberon Therapeutic		Shares	(\$000)
AVÉO Pharmacouticals Inc. 31,73,033 4 Elger BioPharmacouticals Inc. 479,788 4 Rubus Therapeutics Inc. 302,654 4 MannKind Corp. 4,576,191 4,576,191 CASI Fharmacouticals Inc. 31,97,519 4 Athersys Inc. 31,97,519 4 Karyopharm Therapeutics Inc. 490,070 4 Cunterix Corp. 247,992 4 Solid Biosciences Inc. 116,565 4 Tocagen Inc. 166,565 4 Invacare Corp. 997,707 4 Invacare Corp. 155,866 4 Invacare Corp. 152,868 4 Invacare Corp. 152,868 <td></td> <td></td> <td>5,293</td>			5,293
MEI Pharma Inc. 1,82,379 4 Biger BioPharmaceuticals Inc. 302,664 4 MannKinG Corp. 4,576,191 4 CASI Pharmaceuticals Inc. 1,189,325 4 Athersys Inc. 1,189,325 4 Athersys Inc. 490,070 4 Currents Corp. 490,070 4 Ounter K. Corp. 490,070 4 Currents Pharmaceuticals Inc. 16,565 4 Zigoen Inc. 70,968 522,588 4 Invacars Corp. 997,707 4 50,668 6 6 6 6 6 6 6 6 6 6 6 6 6 6 8 6 4 7 7 6 12,166 4 8 2 4 8 8 9 1 1,162,111 4 8 9 1 1,162,111 1 1,122,121 4 1 1,122,121 4 1 1,122,121 4 1 1,122		·	5,168
Figer BioPharmaceuticals Inc.			5,077
Rubus Therapeutics Inc. 302,664 4,676,191 4			4,969 4,877
MannKind Corp. 4,576,191 4 CASI Fharmaceuticals Inc. 3,197,519 4 Athersys Inc. 3,197,519 4 Karyopharm Therapeutics Inc. 490,070 4 Ounsterix Corp. 247,992 4 Solid Biosciences Inc. 167,843 6 Crinetics Pharmaceuticals Inc. 146,505 4 Zafgen Inc. 522,588 4 Tocagen Inc. 522,588 4 Invasare Corp. 997,707 4 Boil-Life Solutions Inc. 355,592 4 Rigatimed Corp. 172,166 4 Krystal Biotecn Inc. 201,532 4 Acelfax Pharmaceuticals Inc. 1,132,311 4 Abeona Therapeutics Inc. 1,132,311 4 Abeona Therapeutics Inc. 355,593 4 Helius Medical Technologies Inc. Class A 424,314 5 Palatin Technologies Inc. Class A 424,314 5 Marinus Pharmaceuticals Inc. 1,298,222 5 Kalfvitas Tharmaceuticals Inc. 186,			4,877 4,867
CASI Pharmaceuticals Inc. 1,169,325 4 Athersys Inc. 3,197,519 4 Karyopharm Therapeutics Inc. 490,070 247,992 Outsteric Corp. 247,992 4 Cirinetics Pharmaceuticals Inc. 167,543 4 Cirinetics Pharmaceuticals Inc. 167,543 4 Tocagen Inc. 570,696 4 Invacare Corp. 997,707 4 BioLife Solutions Inc. 357,166 4 Kystal Biotech Inc. 201,532 4 Kystal Biotech Inc. 201,532 4 AcelRx Pharmaceuticals Inc. 1,132,311 4 Tyme Technologies Inc. 1,132,311 4 Abeona Therapeutics Inc. 578,165 4 American Renal Associates Holdings Inc. 578,165 4 American Renal Associates Holdings Inc. 578,165 4 Marius Pharmaceuticals Inc. 5,467,412 3 Marius Pharmaceuticals Inc. 1,298,22 3 Kalvista Pharmaceuticals Inc. 1,298,22 3 Ocu			4,851
Athersys Inc. 3,197,519 4 Karyopharm Therapeutics Inc. 490,070 4 Ouanterix Corp. 167,843 4 Crinetics Pharmaceuticals Inc. 16,565 4 Zafgen Inc. 870,896 4 Tocagen Inc. 522,888 4 Incesser Corp. 997,707 4 BioLife Solutions Inc. 355,892 4 Rightimed Corp. 172,166 4 Krystal Biotech Inc. 201,582 4 Abeona Therapeutics Inc. 1,112,2311 4 Abeona Therapeutics Inc. 355,983 4 American Renal Associates Holdings Inc. 1,132,311 4 Abeona Therapeutics Inc. 357,165 4 American Renal Associates Holdings Inc. 352,593 4 Hallus Medical Technologies Inc. Class A 424,314 5 Hallus Pharmaceuticals Inc. 5,467,412 5 Kalivitas Therapeutics Inc. 1,298,222 5 Kalivitas Therapeutics Inc. 186,785 5 FONAR Corp.	· ·		4,701
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Kadimed Corp. 172, 166 4 Krystal Biotech Inc. 201,532 4 AcelRx Pharmaceuticals Inc. 1,810,242 4 Tyme Technologies Inc. 1,132,311 4 Abeona Therapeutics Inc. 578,165 4 American Renal Associates Holdings Inc. 352,593 4 Helius Medical Technologies Inc. 362,7412 3 Marinus Pharmaceuticals Inc. 1,298,222 3 KalVista Pharmaceuticals Inc. 1,298,222 3 KalVista Pharmaceuticals Inc. 1,298,222 3 KalVista Pharmaceuticals Inc. 175,855 3 FONAR Corp. 175,855 3 Harvard Bioscience Inc. 1,111,685 3 Ocular Therapeutics Inc. 462,631 3 Aeglea BioTherapeutics Inc. 171,875 3 Acer Therapeutics Inc. 171,875 3 Principia Biopharma Inc. 173,505 3 Imprimis Pharmaceuticals Inc. 173,505 3 Neuronetics Inc. 157,259 3 Adure Biotech Inc. 157,259 3 Adviro Biotech		·	4,290
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Abeona Therapeutics Inc. 578,165 4 American Renal Associates Holdings Inc. 352,593 4 American Renal Associates Holdings Inc. 352,593 424,314 3 Palatin Technologies Inc. 5,467,412 3 Marinus Pharmaceuticals Inc. 1,298,222 3 KalVista Pharmaceuticals Inc. 186,785 3 FONAR Corp. 1,75,855 3 Harvard Bioscience Inc. 1,111,685 3 Ocular Therapeutix Inc. 885,023 3 Acel Bio Therapeutics Inc. 462,631 3 Acer Therapeutics Inc. 111,875 3 Principia Biopharma Inc. 123,505 3 Imprimis Pharmaceuticals Inc. 588,605 3 Neuronetics Inc. 172,213 3 Acis Pharmaceuticals Inc. 157,259 3 Acis Bowle Inc. 157,259 3 Aduro Biotech Inc. 465,764 3 Synlogic Inc. 459,764 3 PolarityTE Inc. 238,053 3 EyePoint			4,182
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KalVista Pharmaceuticals Inc.	•	· · ·	3,726
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Harvard Bioscience Inc.	* FONAR Corp.		3,559
Celcuity Inc. 145,249 3 Aeglea BioTherapeutics Inc. 462,631 3 Acer Therapeutics Inc. 171,875 3 Principia Biopharma Inc. 123,505 3 Imprimis Pharmaceuticals Inc. 588,605 3 Neuronetics Inc. 172,213 3 Xeris Pharmaceuticals Inc. 194,322 3 SI-BONE Inc. 157,259 3 Aduro Biotech Inc. 157,259 3 Synlogic Inc. 465,764 3 Proteostasis Therapeutics Inc. 465,764 3 Pecro Pharma Inc. 452,913 3 PolarityTE Inc. 238,053 3 EyePoint Pharmaceuticals Inc. 307,487 3 Spring Bank Pharmaceuticals Inc. 307,487 3 CorMedix Inc. 2,470,211 3 Bellicum Pharmaceuticals Inc. 915,093 3 Morpiose Inc. 492,665 3 Marker Therapeutics Inc. 549,528 3 Marker Therapeutics Inc. 549,528 3 Maryis Inc. 492,665 3 A			3,535
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* Acer Therapeutics Inc. 171,875 3 * Principia Biopharma Inc. 123,505 3 * Imprimis Pharmaceuticals Inc. 588,605 3 * Neuronetics Inc. 172,213 3 * Xeris Pharmaceuticals Inc. 194,322 3 * SI-BONE Inc. 157,259 3 * Aduro Biotech Inc. 1,241,088 3 * Synlogic Inc. 465,764 3 * Proteostasis Therapeutics Inc. 994,884 3 * Recro Pharma Inc. 452,913 3 * PolarityTE Inc. 238,053 3 * Syring Bank Pharmaceuticals Inc. 1,692,820 3 * Syring Bank Pharmaceuticals Inc. 307,487 3 * CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Optinose Inc. 492,665 3 * Optinose Inc. 492,665 3 * Amyris Inc. 894,783 3 * Gritstone Oncology Inc. 894,783 3 * Kala Pharmaceuticals Inc. 605,169 3		145,249	3,485
• Principia Biopharma Inc. 123,505 3 • Imprimis Pharmaceuticals Inc. 588,605 3 • Neuronetics Inc. 172,213 3 • Xeris Pharmaceuticals Inc. 194,322 3 • SI-BONE Inc. 157,259 3 • Aduro Biotech Inc. 1,241,088 3 • Synlogic Inc. 465,764 3 • Proteostasis Therapeutics Inc. 994,884 3 • PolarityTE Inc. 238,053 3 • PolarityTE Inc. 238,053 3 • Spring Bank Pharmaceuticals Inc. 1,692,820 3 • Spring Bank Pharmaceuticals Inc. 307,487 3 • CorMedix Inc. 2,470,211 3 • Galectin Therapeutics Inc. 1,088,148 3 • Galectin Therapeutics Inc. 492,665 3 • Optinose Inc. 492,665 3 • Amyris Inc. 894,783 3 • Calithera Biosciences Inc. 192,414 2 • Amyris Inc. 894,783 2 • Kala Pharmaceuticals Inc. 192,4		·	3,465
Imprimis Pharmaceuticals Inc. 588,605 3 Neuronetics Inc. 172,213 3 Xeris Pharmaceuticals Inc. 194,322 3 Aduro Biotech Inc. 157,259 3 Aduro Biotech Inc. 1,241,088 3 Synlogic Inc. 465,764 3 Proteostasis Therapeutics Inc. 994,884 3 PolarityTE Inc. 238,053 3 PolarityTE Inc. 1,692,820 3 Spring Bank Pharmaceuticals Inc. 1,692,820 3 Spring Bank Pharmaceuticals Inc. 307,487 3 CorMedix Inc. 2,470,211 3 Bellicum Pharmaceuticals Inc. 1,088,148 3 Macket Therapeutics Inc. 915,093 3 Market Therapeutics Inc. 492,665 3 Market Therapeutics Inc. 549,528 3 Amyris Inc. 894,783 2 Gritstone Oncology Inc. 894,783 2 Kala Pharmaceuticals Inc. 605,169 2	·		3,458
** Neuronetics Inc. 172,213 3 ** Xeris Pharmaceuticals Inc. 194,322 3 * SI-BONE Inc. 157,259 3 * Aduro Biotech Inc. 1,241,088 3 * Synlogic Inc. 465,764 3 * Proteostasis Therapeutics Inc. 994,884 3 * Recro Pharma Inc. 452,913 3 * PolarityTE Inc. 238,053 3 * EyePoint Pharmaceuticals Inc. 1,692,820 3 * Spring Bank Pharmaceuticals Inc. 307,487 3 * CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Galectin Therapeutics Inc. 915,093 3 * Optinose Inc. 492,665 3 * Marker Therapeutics Inc. 492,665 3 * Amyris Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2		·	3,383
*** Xeris Pharmaceuticals Inc. 194,322 3 ** SI-BONE Inc. 157,259 3 ** Aduro Biotech Inc. 1,241,088 3 ** Synlogic Inc. 465,764 3 ** Proteostasis Therapeutics Inc. 994,884 3 ** Recro Pharma Inc. 452,913 3 ** PolarityTE Inc. 238,053 3 ** EyePoint Pharmaceuticals Inc. 1,692,820 3 ** Spring Bank Pharmaceuticals Inc. 307,487 3 ** CorMedix Inc. 2,470,211 3 ** Bellicum Pharmaceuticals Inc. 1,088,148 3 ** Galectin Therapeutics Inc. 915,093 3 ** Optinose Inc. 492,665 3 ** Marker Therapeutics Inc. 549,528 3 ** Calithera Biosciences Inc. 749,087 3 ** Amyris Inc. 894,783 2 ** Gritstone Oncology Inc. 605,169 2			3,349
** SI-BONE Inc. 157,259 3 ** Aduro Biotech Inc. 1,241,088 3 ** Synlogic Inc. 465,764 3 ** Proteostasis Therapeutics Inc. 994,884 3 ** Recro Pharma Inc. 452,913 3 ** PolarityTE Inc. 238,053 3 ** EyePoint Pharmaceuticals Inc. 1,692,820 3 ** Spring Bank Pharmaceuticals Inc. 307,487 3 ** CorMedix Inc. 2,470,211 3 ** Bellicum Pharmaceuticals Inc. 1,088,148 3 ** Galectin Therapeutics Inc. 915,093 3 ** Optinose Inc. 492,665 3 ** Calithera Biosciences Inc. 749,087 3 ** Amyris Inc. 894,783 2 ** Gritstone Oncology Inc. 192,414 2 ** Kala Pharmaceuticals Inc. 605,169 2	Neuronetics Inc.		3,332
* Aduro Biotech Inc. 1,241,088 3 * Synlogic Inc. 465,764 3 * Proteostasis Therapeutics Inc. 994,884 3 * Recro Pharma Inc. 452,913 3 * PolarityTE Inc. 238,053 3 * EyePoint Pharmaceuticals Inc. 1,692,820 3 * Spring Bank Pharmaceuticals Inc. 307,487 3 * CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Galectin Therapeutics Inc. 915,093 3 * Optinose Inc. 492,665 3 * Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2		·	3,303 3,285
** Synlogic Inc. 465,764 3 ** Proteostasis Therapeutics Inc. 994,884 3 ** Recro Pharma Inc. 452,913 3 *^ PolarityTE Inc. 238,053 3 *^ EyePoint Pharmaceuticals Inc. 1,692,820 3 * Spring Bank Pharmaceuticals Inc. 307,487 3 *^ CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 *^ Galectin Therapeutics Inc. 915,093 3 *^ Optinose Inc. 492,665 3 *^ Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,285
* Proteostasis Therapeutics Inc. 994,884 3 * Recro Pharma Inc. 452,913 3 * PolarityTE Inc. 238,053 3 * EyePoint Pharmaceuticals Inc. 1,692,820 3 * Spring Bank Pharmaceuticals Inc. 307,487 3 * CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Galectin Therapeutics Inc. 915,093 3 * Optinose Inc. 492,665 3 * Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,265
** Recro Pharma Inc. 452,913 3 ** PolarityTE Inc. 238,053 3 ** EyePoint Pharmaceuticals Inc. 1,692,820 3 * Spring Bank Pharmaceuticals Inc. 307,487 3 * CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Galectin Therapeutics Inc. 915,093 3 * Optinose Inc. 492,665 3 * Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2		,	3,223
*** PolarityTE Inc. 238,053 3 *** EyePoint Pharmaceuticals Inc. 1,692,820 3 ** Spring Bank Pharmaceuticals Inc. 307,487 3 ** CorMedix Inc. 2,470,211 3 ** Bellicum Pharmaceuticals Inc. 1,088,148 3 ** Galectin Therapeutics Inc. 915,093 3 ** Optinose Inc. 492,665 3 ** Marker Therapeutics Inc. 549,528 3 ** Calithera Biosciences Inc. 749,087 3 ** Amyris Inc. 894,783 2 ** Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,216
*** EyePoint Pharmaceuticals Inc. 1,692,820 3 ** Spring Bank Pharmaceuticals Inc. 307,487 3 ** CorMedix Inc. 2,470,211 3 ** Bellicum Pharmaceuticals Inc. 1,088,148 3 ** Galectin Therapeutics Inc. 915,093 3 ** Optinose Inc. 492,665 3 ** Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 ** Amyris Inc. 894,783 2 ** Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2	*^ PolarityTE Inc.	238,053	3,211
*** CorMedix Inc. 2,470,211 3 * Bellicum Pharmaceuticals Inc. 1,088,148 3 * Galectin Therapeutics Inc. 915,093 3 * Optinose Inc. 492,665 3 * Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 Gritstone Oncology Inc. 192,414 2 Kala Pharmaceuticals Inc. 605,169 2	·	1,692,820	3,199
** Bellicum Pharmaceuticals Inc. 1,088,148 3 *^ Galectin Therapeutics Inc. 915,093 3 *^ Optinose Inc. 492,665 3 *^ Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 *^ Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2	* Spring Bank Pharmaceuticals Inc.		3,195
*** Galectin Therapeutics Inc. 915,093 3 ** Optinose Inc. 492,665 3 ** Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2		· · ·	3,187
*** Optinose Inc. 492,665 3 ** Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,177
** Marker Therapeutics Inc. 549,528 3 * Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,139
* Calithera Biosciences Inc. 749,087 3 * Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,055
** Amyris Inc. 894,783 2 * Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,050
** Gritstone Oncology Inc. 192,414 2 * Kala Pharmaceuticals Inc. 605,169 2			3,004
* Kala Pharmaceuticals Inc. 605,169		·	2,989
			2,973 2,959
Protagonist indiapolitics inc	* Protagonist Therapeutics Inc.	434,340	2,959
			2,923
			2,780
·			2,762
	·		2,748
			2,735
* Arvinas Inc. 209,205 2	* Arvinas Inc.		2,688
			2,679
	•		2,568
*A Organovo Holdings Inc. 2,645,999 2	*^ Organovo Holdings Inc.	2,645,999	2,532

			Market Value
		Shares	(\$000)
*	Twist Bioscience Corp.	108,304	2,501
*,^	Sesen Bio Inc.	1,729,774	2,456
*	Chembio Diagnostics Inc.	429,204	2,429
*	Verrica Pharmaceuticals Inc.	289,364	2,358
*,^	Axonics Modulation Technologies Inc. Pulse Biosciences Inc.	152,300 195,729	2,301 2,243
*	Syndax Pharmaceuticals Inc.	496,673	2,243
*	Sensus Healthcare Inc.	291,443	2,160
*,^	Eidos Therapeutics Inc.	154,566	2,127
	Psychemedics Corp.	133,274	2,115
*	Ardelyx Inc.	1,166,408	2,088
*	Translate Bio Inc.	272,842	2,046
*	Joint Corp.	245,068	2,039
*,^	ADMA Biologics Inc.	841,538	2,011
*,^	Replimune Group Inc. Forty Seven Inc.	195,662 122,975	1,957 1,933
*	Adverum Biotechnologies Inc.	613,546	1,933
*	Endologix Inc.	2,671,901	1,913
*	Rigel Pharmaceuticals Inc.	808,634	1,860
*	CytomX Therapeutics Inc.	120,727	1,823
*	Progenics Pharmaceuticals Inc.	427,645	1,796
*,^	Kezar Life Sciences Inc.	76,019	1,794
*,^	Sorrento Therapeutics Inc.	743,332	1,784
*,^	Community Health Systems Inc.	630,643	1,778
*,^	Seres Therapeutics Inc.	386,810	1,748
*,^	HTG Molecular Diagnostics Inc. La Jolla Pharmaceutical Co.	684,696 183,499	1,739 1,730
*,^	Moderna Inc.	112,563	1,719
*,^	Cohbar Inc.	528,170	1,643
*,^	CEL-SCI Corp.	571,200	1,639
*	Molecular Templates Inc.	396,021	1,600
*	Aquestive Therapeutics Inc.	253,890	1,600
*,^	Anixa Biosciences Inc.	395,301	1,557
*,^	Infinity Pharmaceuticals Inc.	1,310,605	1,547
*,^	resTORbio Inc. Pfenex Inc.	178,693 481,944	1,540 1,537
*	Cidara Therapeutics Inc.	638,301	1,500
*	Durect Corp.	3,064,822	1,481
*,^	BrainStorm Cell Therapeutics Inc.	415,593	1,475
*,^	TG Therapeutics Inc.	351,572	1,441
*	Allena Pharmaceuticals Inc.	261,352	1,424
*	Champions Oncology Inc.	175,385	1,370
*,^	Genesis Healthcare Inc.	1,133,847	1,338
*,^	Rockwell Medical Inc.	587,579 570,466	1,328
*	Alphatec Holdings Inc. InfuSystem Holdings Inc.	578,466 378,907	1,325 1,303
*	Strata Skin Sciences Inc.	484,735	1,260
*	Cumberland Pharmaceuticals Inc.	198,124	1,248
*,^	Catasys Inc.	132,873	1,245
*,^	RA Medical Systems Inc.	141,588	1,126
*,^	Lexicon Pharmaceuticals Inc.	166,208	1,104
*,^	Opiant Pharmaceuticals Inc.	76,262	1,102
*,^	Viveve Medical Inc.	1,048,461	1,101
*	Achillion Pharmaceuticals Inc.	685,471	1,090
*	Dermira Inc. Chiasma Inc.	145,810 327,524	1,048 1,019
*	Kodiak Sciences Inc.	327,524 142,615	1,019
*	Electromed Inc.	191,336	974
*,^	Ampio Pharmaceuticals Inc.	2,382,232	941
*,^	Adamis Pharmaceuticals Corp.	410,505	924
*,^	Actinium Pharmaceuticals Inc.	2,318,153	897
*,^	Rexahn Pharmaceuticals Inc.	954,334	888
*	Cocrystal Pharma Inc.	246,168	886
*	NantKwest Inc.	745,549	865

Martinas BioPharma Holtings Inc.				Market Value
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* Avenue Therapeutics Inc. 36.127 195	*,^		143,398	202
1	*	Avenue Therapeutics Inc.	36,127	195

			Market Value
_		Shares	(\$000)
*	Vaccinex Inc.	51,814	195
*	IsoRay Inc.	597,951 1,000,510	179
*,^	Navidea Biopharmaceuticals Inc. ENDRA Life Sciences Inc.	1,699,516 114.676	174
*,^	Checkpoint Therapeutics Inc.	94,345	172 172
*	Advaxis Inc.	887,326	169
*	Soleno Therapeutics Inc.	94,777	162
*,^	Regulus Therapeutics Inc.	173,709	162
*	Standard Diversified Inc.	10,576	157
٨	Altimmune Inc.	73,246	151
*,^	PAVmed Inc.	151,390	146
*	Catalyst Biosciences Inc.	18,087	143
*	Ovid therapeutics Inc.	53,281	129
*	Constellation Pharmaceuticals Inc.	31,790	127
*	PLx Pharma Inc.	80,502	123
*	Soligenix Inc.	140,021	120
*,^	Genocea Biosciences Inc.	412,724	118
*,^	Eyenovia Inc. Myomo Inc.	38,852 76,279	111 110
*	Synthory Inc.	5,764	100
*,^	Histogenics Corp.	1,113,347	98
*	Arayiye Inc.	26,500	93
*,^	Cleveland BioLabs Inc.	91,596	93
*	Axsome Therapeutics Inc.	30,500	86
	ProPhase Labs Inc.	25,381	80
*	Dynatronics Corp.	27,747	76
*	Fibrocell Science Inc.	47,901	72
*,^	Akers Biosciences Inc.	59,629	67
*	aTyr Pharma Inc.	119,600	59
*,^	Trovagene Inc.	112,756	59
*	Outlook Therapeutics Inc.	117,453	59
*	Retractable Technologies Inc.	98,504	59
*	Idera Pharmaceuticals Inc.	19,628	54
*,^	Agenus Inc. Vermillion Inc.	22,449 177,741	53 53
*	NanoViricides Inc.	254,789	53 51
*	Bioanalytical Systems Inc.	36,675	47
*	Aridis Pharmaceuticals Inc.	4,070	45
*	Millendo Therapeutics Inc.	5,676	45
*	Aileron Therapeutics Inc.	53,500	45
*	Diffusion Pharmaceuticals Inc.	21,707	43
*,^	Pulmatrix Inc.	178,611	43
*	Adial Pharmaceuticals Inc.	8,150	42
*	Leap Therapeutics Inc.	15,286	31
*,^	Cue Biopharma Inc.	6,352	30
*	NanoVibronix Inc.	7,510	26
*,^	XBiotech Inc. Selecta Biosciences Inc.	4,768	24
*,^	Selecta Biosciences Inc. Citius Pharmaceuticals Inc.	8,686 22,052	23 23
*	Precision Therapeutics Inc.	22,052 37,306	23
*	Milestone Scientific Inc.	69,031	23
*	AquaBounty Technologies Inc.	8,850	18
*	Biomerica Inc.	10,523	18
*	Pain Therapeutics Inc.	20,219	17
*	Xenetic Biosciences Inc.	10,312	17
*,^	Teligent Inc.	11,824	16
*	Genprex Inc.	14,698	16
*	Gemphire Therapeutics Inc.	18,400	14
*,^	Achieve Life Sciences Inc.	11,135	13
*	Hemispherx Biopharma Inc.	68,925	12
*	American Shared Hospital Services	4,591	11
*	Synergy Pharmaceuticals Inc.	86,515	10
*	NovaBay Pharmaceuticals Inc.	11,471	9
*	Synthetic Biologics Inc.	13,386	7

			Market
		Shares	Value (\$000)
*,^	Novan Inc.	8,672	7
*,^	Neuralstem Inc.	18,234	6
*	Geron Corp.	5,685	6 4
	Vaxart Inc. Diversicare Healthcare Services Inc.	2,300 1,605	4
^	Wright Medical Group Inc. CVR	288,011	4
*	Bio-Path Holdings Inc.	19,033	3
	Biolase Inc.	45	_
*	Onconova Therapeutics Inc.	14	_
*,^	Microbot Medical Inc.	2	_
*	Galena Biopharma Inc Warrants Exp. 03/18/2020 Sunesis Pharmaceuticals Inc.	157,500	_
*	CytRx Corp.	2	_
	, '	' -	92,996,696
Ind	lustrials (12.9%)	14 412 662	4 640 000
	Boeing Co. 3M Co.	14,412,662 15,557,202	4,648,083
	Union Pacific Corp.	19,683,934	2,964,269 2,720,910
	Honeywell International Inc.	19,774,557	2,612,614
*	PayPal Holdings Inc.	29,900,604	2,514,342
	Accenture plc Class A	17,053,344	2,404,692
	United Technologies Corp.	21,889,917	2,330,838
	Caterpillar Inc.	15,767,358	2,003,558
	United Parcel Service Inc. Class B	18,574,212	1,811,543
	General Electric Co.	232,375,831	1,759,085
	Danaher Corp. Lockheed Martin Corp.	16,847,463 6,458,184	1,737,310 1,691,011
	Automatic Data Processing Inc.	11,109,023	1,456,615
	CSX Corp.	21,430,832	1,331,498
	Deere & Co.	8,594,443	1,282,033
	Raytheon Co.	7,600,390	1,165,520
	Northrop Grumman Corp.	4,637,571	1,135,741
*	Norfolk Southern Corp.	7,275,842	1,088,029
	General Dynamics Corp.	6,723,468	1,056,996
	FedEx Corp.	6,336,498	1,022,267
	Waste Management Inc. Illinois Tool Works Inc.	11,388,584 7,979,144	1,013,470 1,010,878
	Emerson Electric Co.	16,724,825	999,308
	Fidelity National Information Services Inc.	8,744,822	896,781
	Sherwin-Williams Co.	2,250,887	885,634
	Eaton Corp. plc	11,570,475	794,429
*	Fiserv Inc.	10,641,615	782,052
	Roper Technologies Inc.	2,763,673	736,574
	Johnson Controls International plc	24,709,735	732,644
	TE Connectivity Ltd. Amphenol Corp. Class A	9,161,876 8,048,560	692,913 652,094
*	Worldpay Inc. Class A	8,064,710	616,386
	Ingersoll-Rand plc	6,562,921	598,735
	Agilent Technologies Inc.	8,490,865	572,794
	Paychex Inc.	8,634,549	562,541
	Cummins Inc.	4,075,989	544,715
	Fortive Corp.	8,028,485	543,207
	PACCAR Inc.	9,338,173	533,583
	Parker-Hannifin Corp. Willis Towers Watson plc	3,537,283 3,473,569	527,550 527,496
	Waste Connections Inc.	3,473,568 7,044,101	527,496 523,024
	Rockwell Automation Inc.	3,226,016	485,451
	Stanley Black & Decker Inc.	4,038,439	483,563
*	Verisk Analytics Inc. Class A	4,174,899	455,231
*	FleetCor Technologies Inc.	2,370,245	440,202
*	Square Inc.	7,818,971	438,566
	Global Payments Inc.	4,228,031	436,037
*	TransDigm Group Inc.	1,265,716	430,419
	AMETEK Inc.	6,203,481	419,976

			Market
		Shares	Value (\$000)
_	Ball Corp.	9,057,387	416,459
	Republic Services Inc. Class A	5,638,801	406,501
	Fastenal Co.	7,663,568	400,728
	Cintas Corp.	2,284,107	383,707
*	Mettler-Toledo International Inc.	669,357	378,575
	L3 Technologies Inc.	2,098,968	364,507
*	Waters Corp.	1,921,642	362,518
	WW Grainger Inc.	1,277,442	360,699
	Total System Services Inc.	4,387,381	356,650
	Vulcan Materials Co.	3,524,950	348,265
*	CoStar Group Inc.	972,140	327,942
	Xylem Inc.	4,797,042	320,059
	Expeditors International of Washington Inc. CH Robinson Worldwide Inc.	4,616,823 3,675,570	314,359
*	Keysight Technologies Inc.	3,675,570 4,974,712	309,079 308,830
	Broadridge Financial Solutions Inc.	3,114,266	299,748
	Martin Marietta Materials Inc.	1,672,959	287,531
	TransUnion	4,933,847	280,243
	Dover Corp.	3,891,920	276,132
	Textron Inc.	5,829,068	268,079
	Jack Henry & Associates Inc.	2,059,746	260,599
	IDEX Corp.	2,045,942	258,321
	Kansas City Southern	2,706,019	258,290
	Westrock Co.	6,828,915	257,860
	Old Dominion Freight Line Inc.	1,965,687	242,743
*	First Data Corp. Class A	14,280,131	241,477
	Masco Corp.	8,141,551	238,059
	PerkinElmer Inc.	2,966,960	233,055
*	Zebra Technologies Corp.	1,432,521	228,100
*	Lennox International Inc.	1,021,975	223,669
*	United Rentals Inc.	2,164,074	221,882
*	Jacobs Engineering Group Inc. Trimble Inc.	3,787,769 6,696,129	221,433 220,370
	Huntington Ingalls Industries Inc.	1,144,117	217,737
	Snap-on Inc.	1,496,539	217,432
	JB Hunt Transport Services Inc.	2,325,677	216,381
	Packaging Corp. of America	2,515,838	209,972
	Spirit AeroSystems Holdings Inc. Class A	2,836,259	204,466
	Allegion plc	2,539,492	202,423
*	Sensata Technologies Holding plc	4,376,624	196,248
	Arconic Inc.	11,599,507	195,568
*	XPO Logistics Inc.	3,383,451	192,992
*	Teledyne Technologies Inc.	912,887	189,032
	Graco Inc.	4,445,938	186,062
	Alliance Data Systems Corp.	1,232,840	185,025
	Robert Half International Inc.	3,071,672	175,700
*	Pentair plc HD Supply Holdings Inc.	4,623,753 4,654,585	174,685 174,640
	Cognex Corp.	4,363,178	168,724
*	Berry Global Group Inc.	3,486,272	165,702
	AO Smith Corp.	3,846,557	164,248
	Wabtec Corp.	2,319,434	162,940
	Booz Allen Hamilton Holding Corp. Class A	3,599,810	162,243
*	WEX Inc.	1,147,751	160,754
	HEICO Corp. Class A	2,548,378	160,548
	FLIR Systems Inc.	3,683,637	160,386
*	Arrow Electronics Inc.	2,320,385	159,991
	Carlisle Cos. Inc.	1,588,465	159,672
	Nordson Corp.	1,325,418	158,189
	AptarGroup Inc.	1,673,612	157,437
	National Instruments Corp.	3,352,887	152,154
*	Allison Transmission Holdings Inc.	3,458,355	151,856
	Crown Holdings Inc. Toro Co.	3,604,595 2,674,007	149,843 149,424
	TOTO CO.	2,674,007	145,424

			Market
		Shares	Value (\$000)
	Donaldson Co. Inc.	3,414,666	148,162
	Sealed Air Corp.	4,175,857	145,487
	Hubbell Inc. Class B	1,456,543	144,693
	Sonoco Products Co.	2,659,002	141,273
*	Fair Isaac Corp.	732,930	137,058
*	Euronet Worldwide Inc.	1,305,639	133,671
	Flowserve Corp.	3,498,466	133,012
	Hexcel Corp.	2,293,822	131,528
	Lincoln Electric Holdings Inc.	1,632,586	128,729
	Owens Corning MDU Resources Group Inc.	2,925,079 5,227,316	128,645 124,619
	Acuity Brands Inc.	1,069,518	122,941
	Fluor Corp.	3,755,152	120,916
	Watsco Inc.	854,894	118,950
	Oshkosh Corp.	1,914,228	117,361
	Quanta Services Inc.	3,894,232	117,216
*	Genesee & Wyoming Inc. Class A	1,552,846	114,942
	ITT Inc.	2,334,894	112,705
*	AECOM	4,207,608	111,502
	MAXIMUS Inc. Bemis Co. Inc.	1,708,524	111,208
	Woodward Inc.	2,417,588 1,484,055	110,967 110,250
	Littelfuse Inc.	636,508	109,148
	Avnet Inc.	2,988,487	107,884
	ManpowerGroup Inc.	1,661,308	107,653
	Curtiss-Wright Corp.	1,050,381	107,265
	Xerox Corp.	5,394,124	106,588
^	Universal Display Corp.	1,131,465	105,871
*	IPG Photonics Corp.	926,630	104,978
	Landstar System Inc.	1,095,122	104,770
	Genpact Ltd.	3,804,037	102,671
	BWX Technologies Inc. Jabil Inc.	2,641,570 3,948,398	100,987 97,881
	Crane Co.	1,345,917	97,148
	nVent Electric plc	4,301,823	96,619
*	Kirby Corp.	1,430,657	96,369
	USG Corp.	2,235,637	95,372
*	Esterline Technologies Corp.	780,192	94,754
	AGCO Corp.	1,683,863	93,741
	Insperity Inc.	1,003,200	93,659
*	MSC Industrial Direct Co. Inc. Class A Trex Co. Inc.	1,209,050 1,565,194	93,000 92,910
	EMCOR Group Inc.	1,531,960	91,443
*	Stericycle Inc.	2,407,180	88,319
	Graphic Packaging Holding Co.	8,263,233	87,921
	EnerSys	1,124,484	87,271
	MSA Safety Inc.	915,899	86,342
*	RBC Bearings Inc.	644,004	84,429
	Louisiana-Pacific Corp.	3,750,175	83,329
	Brink's Co.	1,283,602	82,985
*	Generac Holdings Inc.	1,653,604	82,184
	Knight-Swift Transportation Holdings Inc. Regal Beloit Corp.	3,244,643 1,151,058	81,343 80,632
	Air Lease Corp. Class A	2,625,886	79,328
*	Proto Labs Inc.	688,072	77,608
	Tetra Tech Inc.	1,477,683	76,500
	Armstrong World Industries Inc.	1,260,753	73,388
	Kennametal Inc.	2,187,554	72,802
*	Owens-Illinois Inc.	4,217,043	72,702
*	Allegheny Technologies Inc.	3,338,446	72,678
	Eagle Materials Inc.	1,188,238	72,518
*	ASGN Inc.	1,323,591	72,136
	CoreLogic Inc. Macquarie Infrastructure Corp.	2,141,928 1,930,900	71,583 70,594
	ινιαογαατίο ππιαστιασταίο συτμ.	1,330,300	70,094

Gardner Denwer Holdings Inc.			Market
AMN Healthcare Services Inc. 1,243,372 70 GATX Corp. 984,848 98 Barnes Group Inc. 1,288,232 98 Exponent Inc. 1,361,329 98 Coherent Inc. 1,803,327 88 Immen Co. 1,803,328 88 Immen Co. 1,930,328 88 Immed Co. 1,930,328 82 MasToc Inc. 1,931,324 87 Med Toc Inc. 1,932,446 67 Ryder System Inc. 1,404,880 67 Residen Eenhologies Inc. 1,347,226 67 Clear Harbors Inc. 1,347,246 67 Clear Harbors Inc. 1,347,246 66 Moog Inc. Class A 880,530 65 Acrost Enchologies Inc. 1,472,685 67 As on Entreptate Inc. 1,472,685 66 As on Entreptate Inc. 1,472,685 66 Acrost Enchologies Inc. 1,472,685 66 Record Enchange Inc. 1,472,885 66 Record Enchang		Shares	Value (\$000)
. AMN Healthcare Services Inc. GAIX Corp. Barnes Group Inc. Lyanger In	* Gardner Denver Holdings Inc.	3,446,468	70,480
Barnes Group Inc. 1,288,232 89 Exponent Inc. 1,361,329 89 Coherent Inc. 1,649,452 88 Timken Co	* AMN Healthcare Services Inc.	1,243,372	70,449
Exponent Inc. 1,381,329 89. Coherent Inc. 649,462 88. Timkon Co. 1,383,217 88. Timkon Co. 1,209,98 88. Timkon Co. 1,209,98 88. Timky Industries Inc. 1,673,546 67. Ryder System Inc. 1,674,546 67. Ryder System Inc. 1,674,546 67. Ryder System Inc. 1,674,679,679 67. Resideo Technologies Inc. 1,674,549 66. Resideo Technologies Inc. 1,674,679 67. Resideo Technol	GATX Corp.	984,848	69,737
Coherent Inc. 649,462 68 FIT Consulting Inc. 1,838,217 68 FIT Consulting Inc. 1,020,998 68 Trinty Industries Inc. 3,031,933 67 Mas Fac Inc. 1,673,546 67 Ryder System Inc. 1,404,880 67 Resideo Technologies Inc. 3,276,926 67 Clean Harbors Inc. 1,472,228 66 Ale rojet Rocket/yer Holdings Inc. 1,872,229 66 Ale rojet Rocket/yer Holdings Inc. 1,872,229 66 Ale rojet Rocket/yer Holdings Inc. 1,872,229 66 Ale rojet Rocket/yer Holdings Corp. 861,331 66 Ale rojet Rocket/yer Holdings Corp. 1,472,652 64 Vishay Intertachnology Inc. 1,599,021 62 John Earl Echnologies Corp. 2,764,897 63 John Bean Technologies Corp. 1,843,772 60 John Bean Technologies Corp. 1,843,772 60 Site One Landscape Supply Inc. 1,942,722 59 Wiff SCO International Inc. 1,241,222 </td <td>Barnes Group Inc.</td> <td>1,288,232</td> <td>69,075</td>	Barnes Group Inc.	1,288,232	69,075
Timken Co. 1,838_217 88 FTI Consulting Inc. 1,020,998 88 FTI Inty Industries Inc. 1,020,998 88 FTI Inty Industries Inc. 1,031,933 67 78 78 78 78 78 78 78	Exponent Inc.		69,033
FIT Consulting Inc. 1,020,098 88 Trinity Industries Inc. 3,301,933 67 Mas Tec Inc. 1,673,546 67 Ryder System Inc. 1,673,546 67 Resideo Technologies Inc. 3,276,926 67 Clean Harbors Inc. 1,874,459 66 Acrojet Rockatdyne Holdings Inc. 1,874,459 66 Moog Inc. Class A 850,530 65 Integer Holdings Corp. 481,931 65 Axon Enterprise Inc. 1,472,652 64 Vishay Interachnology Inc. 3,598,357 63 February Corp. 2,764,897 53 Valm Bean Technologies Corp. 43,772 60 Simpson Manufacturing Co. Inc. 1,118,000 60 Cimpress No. 1,218,000 60 Cimpress No. 1,203,200 59 Simpson Manufacturing Co. Inc. 1,118,000 60 Cimpress No. 1,203,200 59 Simpson Manufacturing Co. Inc. 1,181,400 50 WESCO International Inc.		649,462	68,655
Trinty Industries Inc.		1,838,217	68,602
MasTac Inc. 1,673,546 87 Ryder System Inc. 1,404,880 67 Resideo Technologies Inc. 3,276,926 67 Clana Habros Inc. 1,347,226 68 Aerojet Rocketdyne Holdings Inc. 1,874,459 68 Moog Inc. Class A 880,530 65 Integer Holdings Corp. 481,931 65 Avon Enterprise Inc. 1,472,652 64 Vishay Intertechnology Inc. 3,528,357 63 Nemord Ctop. 2,764,857 63 Valmont Industries Inc. 359,021 62 John Bean Technologies Corp. 437,772 60 Simpson Manufacturing Co. Inc. 1,118,008 60 Cimpress N. 1,218,272 39 Simbore Landscape Supply Inc. 1,124,172 39 WESCO International Inc. 1,241,272 39 West College Supply Inc. 1,814,837 37 Mercury Systems Inc. 1,241,272 39 Mary Systems Inc. 1,209,308 37 Kornifferry International <td></td> <td></td> <td>68,039</td>			68,039
Ryder System Inc.		3,301,933	67,987
Resideo Technologies Inc. 3,276,926 67 Care Clean Habrors Inc. 1,874,459 68 A Acrojet Rocketdyne Holdings Inc. 1,874,459 68 Moog Inc. Class A 880,530 65 Integer Holdings Corp. 81,931 65 Axon Enterprise Inc. 1,472,652 64 Vishay Intertechnology Inc. 3,523,357 63 Peacord Corp. 2,764,897 63 Valmont Industries Inc. 559,021 62 John Bean Technologies Corp. 559,021 62 Simpson Manufacturing Co. Inc. 1,118,608 60 Cimpress NV 579,523 59 Sistione Landscape Supply Inc. 1,083,744 59 WESCO International Inc. 1,124,122 59 Unifiest Corp. 405,530 57 Beacen Roding Supply Inc. 1,124,122 59 WESCO International Inc. 1,208,988 57 Korr/Ferry International 1,414,1890 57 KBR Inc. 3,790,178 56 ABM Industries I			67,879
Clean Harbors Inc. 1,347,226 66 Aerojet Rocketdyne Holdings Inc. 850,530 65 Moog Inc. Class A 850,530 65 Integer Holdings Corp. 1,472,652 64 Vishay Interechnology Inc. 3,528,357 63 Rexord Corp. 2,764,897 63 Valmont Industries Inc. 1,928,267 62 John Bean Technologies Corp. 843,772 60 Simpson Manufacturing Co. Inc. 1,118,608 60 Cimpress NV 579,523 59 SiteOne Landscape Supply Inc. 579,523 59 WESCO International Inc. 1,241,222 59 Unifirst Corp. 403,530 57 Beacon Roofing Supply Inc. 1,814,837 57 Mercury Systems Inc. 1,281,222 59 Mercury Systems Inc. 1,281,237 50 Mercury Systems Inc. 1,281,837 57 Korn/Ferry International 1,441,890 57 Korn/Ferry International 1,441,890 57 Korn/Ferry International 1,441,890 57 Korn/Ferry Internatio			67,645
A Acquiet Rocketdyne Holdings Inc. 1,874,459 68 Moog Inc. Class A 880,530 65 Integer Holdings Corp. 819,331 65 A Xen Enterprise Inc. 1,472,652 64 Vishay Intertechnology Inc. 3,523,357 63 Nexnord Corp. 2,764,897 63 Valmott Industries Inc. 559,021 62 John Bean Technologies Corp. 843,772 60 Simpson Manufacturing Co. Inc. 1,118,608 60 Cimpress W 579,523 59 Si Eleche Landscape Supply Inc. 1,083,744 59 WESCO International Inc. 1,124,122 59 Unifiest Corp. 405,530 57 Mean Ronding Supply Inc. 405,530 57 Mercury Systems Inc. 1,209,898 57 Korn/Forry International 1,204,418 59 KBR Inc. 3,730,178 56 ABM Industries Inc. 3,730,178 56 Nowarta Inc. 867,011 54 Applied Industriel Technologies Inc. 867,011 54 Rest Corp. 1,619,273			67,341
Moog Inc. Class A 850,530 65 Axon Enterprise Inc. 1,472,652 64 Vishey Intertechnology Inc. 3,528,357 63 Rexnard Corp. 2,764,897 63 Valmont Industries Inc. 559,021 62 John Bean Technologies Corp. 814,772 60 Simpson Maunfacturing Co. Inc. 1,118,688 60 Cimpress NV 579,523 59 WESCO International Inc. 1,083,744 59 WESCO International Inc. 1,241,222 59 Unifirat Corp. 403,530 57 Beacon Roofing Supply Inc. 1,814,837 57 Beacon Roofing Supply Inc. 1,141,890 57 Mercury Systems Inc. 1,209,888 57 KBR Inc. 1,751,145 56 ABM Industries Inc. 1,751,145 56 ABM Industries Inc. 1,751,145 56 Applied Industrial Technologies Inc. 1,751,145 56 Applied Industrial Technologies Inc. 1,99,369 52 In Paylocity Hold	Clean Harbors Inc.		66,486
Integer Holdings Corp. 861,931 65 Axon Enterprise Inc. 1,472,682 64 Vishay Intertechnology Inc. 3,528,367 63 Rexnard Corp. 2,768,4897 63 Valmont Industries Inc. 59,021 62 John Bean Technologies Corp. 843,772 60 Simpson Manufacturing Co. Inc. 1,18,608 60 Cimpress IV 1,083,744 59 Site One Landscape Supply Inc. 1,083,744 59 WESCO International Inc. 1,083,744 59 WESCO International Inc. 1,203,888 57 Beacon Roofing Supply Inc. 403,530 57 Beacon Roofing Supply Inc. 1,314,837 57 Mercury Systems Inc. 1,208,888 57 Korn/Ferry International 1,411,890 57 KBR Inc. 1,511,415 56 Novarta Inc. 1,551,445 53 ABM Industries Inc. 1,551,445 53 Otter Tail Corp. 1,600,380 52 Il-VI Inc. 1,551			66,037
A. Aon Enterprise Inc. 1.472_652 64 Vishay Intertechnology Inc. 3.528_357 63 Raxnord Corp. 2.764_897 63 Valmont Industries Inc. 559_021 62 John Bean Technologies Corp. 843_772 60 Simpson Manufacturing Co. Inc. 1,118_608 60 Cimpress IN 559_021 52 Site Ol. Land Strain College 1,118_608 60 Cimpress IN 1,118_608 60 WESCO International Inc. 1,241_222 59 UFFICE Comp. 403_530 57 Beacon Roofing Supply Inc. 1,814_837 57 Microury Systems Inc. 1,209_888 57 Korn/Forry International 1,411,890 57 KBR Inc. 3,730_178 56 ABM Industries Inc. 3,730_178 56 Novanta Inc. 3,730_178 56 Applied Industrial Technologies Inc. 1,009_736 54 Brady Corp. Class A 1,244_54 53 Otter Tail Corp. 1,619_27	9	850,530	65,899
Wishay Intertechnology Inc. 3,528,357 63 Raxmord Corp. 2,764,889 63 Valmont Industries Inc. 65,90,21 62 John Bean Technologies Corp. 843,772 60 Simpson Manufacturing Co. Inc. 1,118,608 60 Cimpress NV 1,983,744 58 Sixte One Landscape Supply Inc. 1,083,744 58 WESCO International Inc. 1,241,222 59 UniFirst Corp. 403,530 57 Mercury Systems Inc. 1,208,898 57 Mercury Systems Inc. 1,208,898 57 Korn/Ferry International 1,411,890 57 KBR Inc. 1,751,445 56 Novariat Inc. 1,751,445 56 Novariat Inc. 1,751,445 56 ABM Industries Inc. 1,751,445 56 A Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,619,273 52 Il-VI Inc. 1,519,273 52 Pylocity Holding Corp. 81,065 51<		·	65,731
Raxnord Corp. 2,764,897 62 John Bean Technologies Corp. 843,772 60 Simpson Manufacturing Co. Inc. 1,118,608 60 Compress NV 579,523 58 Site Compress NV 1,083,744 59 WESCO International Inc. 1,241,222 59 Umifirst Corp. 403,530 57 Mecoury Systems Inc. 1,814,837 57 Korn/Forry International 1,414,830 57 Korn/Forry International 1,414,830 57 KBR Inc. 3,730,178 56 ABM Industries Inc. 1,751,145 56 Novanta Inc. 1,607,114 56 Applied Industrial Technologies Inc. 867,011 54 Applied Industrial Technologies Inc. 1,609,733 52 I IVI Inc. 1,609,733 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 888,960 49 Imperva Inc. 888,960 49			64,429
Valmont Industries Inc. 559,021 622 50h Bear Technologies Corp. 843,772 60 50h Bear Technologies Corp. 843,772 60 50h Bear Technologies Corp. 1,118,608 60 60 60 60 60 60 60		3,528,357	63,546
John Bean Technologies Corp. 843,772 60 60 Simpson Manufacturing Co. Inc. 1.118 608 60 Cimpress NV	* Rexnord Corp.	2,764,897	63,454
Simpson Manufaturing Co. Inc. 1,118,608 50 Compress NV 579,523 59 Site One Landscape Supply Inc. 1,083,744 59 WESCO International Inc. 1,241,222 59 Unifiest Corp. 409,530 57 Beacon Roofing Supply Inc. 1,218,4837 57 Mercury Systems Inc. 1,209,898 57 Korn/Ferry International 1,441,890 57 KBR Inc. 3,730,178 56 Novanta Inc. 867,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,244,554 53 Otter Tail Corp. 1,619,273 52 I Paylocity Holding Corp. 851,065 51 Conduent Inc. 1,1619,273 52 Paylocity Holding Corp. 889,960 49 Terex Corp. 1,792,334 49 Signa Holdings Inc. 2,037,204 48 Deluxe Corp. 1,744,482 47 Tranker Group Inc. 1,382,177	Valmont Industries Inc.	559,021	62,023
Compress NV 579,523 59. Site One Landscape Supply Inc. 1,083,744 59. WESCO International Inc. 1,241,222 59. Unifiest Corp. 409,530 57. Beacon Roofing Supply Inc. 1,184,837 57. Mercury Systems Inc. 1,209,898 57. Korr/Ferry International 1,441,890 57. KBR Inc. 3,730,178 56. ABM Industries Inc. 1,751,145 56. Nowarta Inc. 867,011 54. Applied Industrial Technologies Inc. 867,011 54. Brady Corp. Class A 1,234,554 53. Otter Tail Corp. 1,060,380 52. IPVI Inc. 1,619,273 52. Paylocity Holding Corp. 851,065 51. Conductr Inc. 4,818,160 51. Granite Construction Inc. 1,125,3224 50. Imperval Inc. 88,960 49. Terex Corp. 1,792,334 49. Silgan Holdings Inc. 2,037,204 48	John Bean Technologies Corp.	843,772	60,591
SteOne Landscape Supply Inc. 1,083,744 59 WESCO International Inc. 1,241,222 59 Unifirst Corp. 403,530 57 Beacon Roofing Supply Inc. 1,1814,837 57 Mercury Systems Inc. 1,209,898 57 Korn/Ferry International 1,441,890 57 KBR Inc. 3,730,178 56 ABM Industries Inc. 1,751,145 56 Novanta Inc. 667,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,009,736 54 Otter Tail Corp. 1,009,830 52 I IVI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 1,253,224 50 Granite Construction Inc. 1,253,224 50 Imperva Inc. 1,792,334 49 Terex Corp. 1,792,334 49 Tilled Group Inc. 2,037,204 48 Deluxe Corp. 1,138,217 47 Tilled Group Inc. 1,244,482 47	Simpson Manufacturing Co. Inc.	1,118,608	60,550
WESCO International Inc. 1,241,222 59 UniFirst Corp. 403,530 57 Beacon Roofing Supply Inc. 1,814,837 57 Mercury Systems Inc. 1,209,888 57 Korn/Ferry International 1,441,890 57 ABM Industries Inc. 3,730,178 56 ABM Industries Inc. 867,011 54 Applied Industrial Technologies Inc. 867,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,243,554 53 Otter Tail Corp. 1,619,273 52 II-VI Inc. 1,619,273 52 II-VI	* Cimpress NV	579,523	59,934
UniFirst Corp.	* SiteOne Landscape Supply Inc.	1,083,744	59,899
8 Beacon Roofing Supply Inc. 1,814,837 57. Mercury Systems Inc. 1,209,898 57. Kom/Ferry International 1,441,890 57. KBR Inc. 3,730,178 56. ABM Industries Inc. 1,751,145 56. Novanta Inc. 867,011 54. Applied Industrial Technologies Inc. 1,009,736 54. Brady Corp. Class A 1,204,554 53. Otter Tail Corp. 1,669,280 52. II-VI Inc. 1,619,273 52. Paylocity Holding Corp. 851,065 51. Granite Construction Inc. 1,253,224 50. Granite Construction Inc. 1,253,224 50. Imperva Inc. 888,960 49. Terex Corp. 1,792,334 49. Sigan Holdings Inc. 2,037,204 48. Deluxe Corp. 1,244,482 47. TriNet Group Inc. 1,138,217 47. Rogers Corp. 479,477 47. Fabrinet 903,399 47. Witts Water Technologies Inc. Class A 731,188 47. <	* WESCO International Inc.	1,241,222	59,579
Mercury Systems Inc. 1,209,898 57. Kom/Ferry International 1,441,890 57. KBR Inc. 3,730,178 56. ABM Industries Inc. 1,751,145 56. Novanta Inc. 867,011 54. Applied Industrial Technologies Inc. 1,009,736 54. Brady Corp. Class A 1,234,554 53. Otter Tail Corp. 1,060,380 52. I-I-VI Inc. 1,619,273 52. Paylocity Holding Corp. 851,065 51. Conduent Inc. 4,818,160 51. Grainite Construction Inc. 1,253,224 50. Imperva Inc. 888,960 49. Imperva Inc. 888,960 49. Imperva Inc. 1,792,334 49. Silgan Holdings Inc. 2,037,204 48. Deluxe Corp. 1,138,217 47. Rogers Corp. 1,244,482 47. Rogers Corp. 1,274,482 47. Rogers Corp. 1,284,482 47. Rogers Corp. 1,283,239 45. Watts Water Technologi	UniFirst Corp.	403,530	57,733
Korn/Ferry International 1,441,890 57 KBR Inc. 3,730,178 56 ABM Industries Inc. 1,751,145 56 Novanta Inc. 867,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,609,330 52 Il-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 88,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 Trilvlet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Rogers Corp. 479,477 47 Rogers Corp. 479,477 47 Rogers Corp. 1,283,239 45 Albany International Corp. 752,815 46 Advanced Disposal Services Inc.	* Beacon Roofing Supply Inc.	1,814,837	57,567
KBR Inc. 3,730,178 56 ABM Industries Inc. 3,730,178 56 Novanta Inc. 867,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 I-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 888,960 49 Imperva Inc. 888,960 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 55,2815 46 Advanced Disposal Services Inc. 1,074,293 44 EVENTEC Inc. 1,552,357 44 EVENTEC Inc. </td <td>* Mercury Systems Inc.</td> <td>1,209,898</td> <td>57,216</td>	* Mercury Systems Inc.	1,209,898	57,216
ABM Industries Inc. 1,751,145 56 Novanta Inc. 867,011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 II-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 888,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 Trifixe Group Inc. 1,138,217 47 Trifixe Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,389 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,552,357 44 EV		1,441,890	57,012
Novanta Inc. 367/011 54 Applied Industrial Technologies Inc. 1,009,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 II-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 888,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 TriNet Group Inc. 1,138,217 47 Toff Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,074,293 44 Belden Inc. 1,074,293 44 EVERTEC Inc. 1,522,357 44 EVERTEC Inc.<	KBR Inc.	3,730,178	56,624
Applied Industrial Technologies Inc. 1,090,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 I-IVI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 1,883,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 852,221 44 Ex/Service Holdings Inc. 852,221 44 Ex/Service Holdings Inc. 852,221 44 Ex/Service Holdings Inc. 1,552,357 44 Plexus Corp. 855,183 43	ABM Industries Inc.	1,751,145	56,229
Applied Industrial Technologies Inc. 1,090,736 54 Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 I-IVI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 1,883,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 852,221 44 Ex/Service Holdings Inc. 852,221 44 Ex/Service Holdings Inc. 852,221 44 Ex/Service Holdings Inc. 1,552,357 44 Plexus Corp. 855,183 43	* Novanta Inc.	867,011	54,622
Brady Corp. Class A 1,234,554 53 Otter Tail Corp. 1,060,380 52 II-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 88,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 TriNet Group Inc. 1,138,217 47 Rogers Corp. 1,138,217 47 Pabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Watts Water Technologies Inc. Class A 731,188 47 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,074,293 44 EXISERVICE Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 1,717,530 43 Triton International Ltd. 0,076,792 42 Dyc	Applied Industrial Technologies Inc.	1,009,736	54,465
II-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperva Inc. 888,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 Tri Tirket Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,974,293 44 EXIService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,717,530 43 Atra Industrial Motion Corp. 1,717,530 43 <t< td=""><td>Brady Corp. Class A</td><td>1,234,554</td><td>53,654</td></t<>	Brady Corp. Class A	1,234,554	53,654
II-VI Inc. 1,619,273 52 Paylocity Holding Corp. 851,065 51 Conduent Inc. 4,818,160 51 Granite Construction Inc. 1,253,224 50 Imperval Inc. 888,960 49 Terex Corp. 1,792,334 49 Silgan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47 ***TriNet Group Inc. 1,138,217 47 ***Pabrinet 923,989 47 **Watts Water Technologies Inc. Class A 731,188 47 **Albany International Corp. 752,815 46 **Advanced Disposal Services Inc. 1,883,239 45 **Belden Inc. 1,504,235 44 **EVERTEC Inc. 1,552,357 44 **EVERTEC Inc. 1,552,357 44 **Plexus Corp. 855,183 43 **Franklin Electric Co. Inc. 1,717,530 43 **Iron International Ltd. 975,502 42 **Dycom Industries Inc. 975,502 42 **Dycom Industries Inc. 2,026,939 42	Otter Tail Corp.	1,060,380	52,637
Conduent Inc. 4,818,160 51, Granite Construction Inc. 1,253,224 50, Imperva Inc. 888,960 49, Terex Corp. 1,792,334 49, Silgan Holdings Inc. 2,037,204 48, Deluxe Corp. 1,244,482 47, TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47, Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45, Belden Inc. 1,074,293 44, EXIService Holdings Inc. 852,221 44, EVERTEC Inc. 1,552,357 44, VERTEC Inc. 1,552,357 44, Plexus Corp. 855,183 43, Franklin Electric Co. Inc. 1,717,530 43, Altra Industrial Motion Corp. 1,717,530 43, Tifton International Ltd. 975,502 42, Dycom Industries Inc. 2,139,270 42,	* II-VI Inc.	1,619,273	52,562
Granite Construction Inc. 1,253,224 50, Imperva Inc. 888,960 49, Terex Corp. 1,792,334 49, Silgan Holdings Inc. 2,037,204 48, Deluxe Corp. 1,244,482 47, TriNet Group Inc. 1,138,217 47, Rogers Corp. 479,477 47, Fabrinet 923,989 47, Watts Water Technologies Inc. Class A 731,188 47, Albany International Corp. 752,815 46, Advanced Disposal Services Inc. 1,883,239 45, Belden Inc. 1,074,293 44, EVERTEC Inc. 852,221 44, EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43, Franklin Electric Co. Inc. 1,011,717 43, Altra Industrial Motion Corp. 1,717,530 43, Triton International Ltd. 1,385,415 43, Comfort Systems USA Inc. 975,502 42, Dycom Industries Inc. 787,929 42, Olycom Industries Inc. 2,139,270 42,	* Paylocity Holding Corp.	851,065	51,243
Imperva Inc. 888,960 49, Terex Corp. 1,792,334 49, 34, 334 49, 334 49, 334 49, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34		4,818,160	51,217
Terex Corp. 1,792,334 49, 8 ligan Holdings Inc. 2,037,204 48 Deluxe Corp. 1,244,482 47, 17 livet Group Inc. 1,138,217 47, 47, 47, 47, 47, 47, 47, 47, 47, 47,	Granite Construction Inc.	1,253,224	50,480
Silgan Holdings Inc. 2,037,204 48, Deluxe Corp. To Deluxe Corp. 1,244,482 47, 17, 138, 217 TriNet Group Inc. 1,138,217 47, 47, 47, 47, 47, 47, 47, 47, 47, 47,	* Imperva Inc.	888,960	49,506
Deluxe Corp. 1,244,482 47. Trillet Group Inc. 1,138,217 47. Rogers Corp. 479,477 47. Fabrinet 923,989 47. Watts Water Technologies Inc. Class A 731,188 47. Albany International Corp. 752,815 46. Advanced Disposal Services Inc. 1,883,239 45. Belden Inc. 1,074,293 44. EVERTEC Inc. 1,552,357 44. EVERTEC Inc. 855,183 43. Plexus Corp. 855,183 43. Franklin Electric Co. Inc. 1,011,717 43. Altra Industrial Motion Corp. 1,717,530 43. Triton International Ltd. 1,385,415 43. Comfort Systems USA Inc. 975,502 42. Dycom Industries Inc. 787,929 42. Alra Corp. 2,139,270 42. Colfax Corp. 2,026,939 42. TopBuild Corp. 933,250 41. Covanta Holding Corp. 632,884 41.	Terex Corp.	1,792,334	49,415
TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,074,293 44 ExlService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 632,884 41	Silgan Holdings Inc.	2,037,204	48,119
TriNet Group Inc. 1,138,217 47 Rogers Corp. 479,477 47 Fabrinet 923,989 47 Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,074,293 44 ExlService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 632,884 41		1,244,482	47,838
Rogers Corp. 479,477 47, 477 Fabrinet 923,989 47, 477 Watts Water Technologies Inc. Class A 731,188 47, 47, 47, 47, 47, 47, 47, 47, 47, 47,	* TriNet Group Inc.	1,138,217	47,748
Fabrinet 923,989 47, Watts Water Technologies Inc. Class A 731,188 47, Albany International Corp. 752,815 46, Albany International Corp. 47, Abyanced Disposal Services Inc. 1,883,239 45, Belden Inc. 1,074,293 44, ExlService Holdings Inc. 852,221 44, Beyans Corp. 44, Beyans Corp. 855,183 43, Beyans Corp. 42, Beyans Corp. 43, Beyans Corp. 44, Beyans Corp. 44, Beyans Corp. 44, Beyans Corp. 45, Beyans Corp. 45, Beyans Corp. 45, Beyans Corp. 46, Beyans Corp. 46, Beyans Corp. 46, Beyans Corp. 47, Beyans Corp	* Rogers Corp.		47,497
Watts Water Technologies Inc. Class A 731,188 47 Albany International Corp. 752,815 46 Advanced Disposal Services Inc. 1,883,239 45 Belden Inc. 1,074,293 44 ExlService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	* Fabrinet		47,410
Albany International Corp. 752,815 46, Advanced Disposal Services Inc. 1,883,239 45, Belden Inc. 1,074,293 44, ExIService Holdings Inc. 852,221 44, EVERTEC Inc. 1,552,357 44, Plexus Corp. 855,183 43, Franklin Electric Co. Inc. 1,011,717 43, Altra Industrial Motion Corp. 1,717,530 43, Tritton International Ltd. 1,385,415 43, Comfort Systems USA Inc. 975,502 42, Dycom Industries Inc. 787,929 42, Harsco Corp. 2,139,270 42, Colfax Corp. 2,026,939 42, TopBuild Corp. 933,250 41, Covanta Holding Corp. 3,127,482 41, ESCO Technologies Inc. 632,884 41,	Watts Water Technologies Inc. Class A	731,188	47,184
Belden Inc. 1,074,293 44 ExIService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	Albany International Corp.	752,815	46,998
Belden Inc. 1,074,293 44 ExIService Holdings Inc. 852,221 44 EVERTEC Inc. 1,552,357 44 Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	* Advanced Disposal Services Inc.	1,883,239	45,085
ExIService Holdings Inc. 852,221 44, EVERTEC Inc. Plexus Corp. 855,183 43, Franklin Electric Co. Inc. Altra Industrial Motion Corp. 1,011,717 43, Triton International Ltd. Comfort Systems USA Inc. 975,502 42, Triton Industries Inc. Dycom Industries Inc. 787,929 42, Triton Industries Inc. Harsco Corp. 2,139,270 42, Triton Industries Inc. Colfax Corp. 2,026,939 42, Triton Industries Inc. TopBuild Corp. 2,026,939 42, Triton Industries Inc. Covanta Holding Corp. 3,127,482 41, Triton International Ltd. Covanta Holding Corp. 632,884 41, Triton International Ltd.			44,873
EVERTEC Inc. 1,552,357 44 * Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 * Colfax Corp. 2,026,939 42 * TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	* ExlService Holdings Inc.		44,844
Plexus Corp. 855,183 43 Franklin Electric Co. Inc. 1,011,717 43 Altra Industrial Motion Corp. 1,717,530 43 Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	9	1.552.357	44,553
Franklin Electric Co. Inc. 1,011,717 43, Altra Industrial Motion Corp. Triton International Ltd. 1,385,415 43, Comfort Systems USA Inc. Dycom Industries Inc. 975,502 42, 32, 32, 32, 32, 32, 32, 32, 32, 32, 3	* Plexus Corp.		43,683
Altra Industrial Motion Corp. 1,717,530 43, Triton International Ltd. 1,385,415 43, 43, 435,415 43, 43, 435,415 43, 43, 435,415 43, 43, 43, 43, 43, 43, 43, 43, 43, 43,			43,382
Triton International Ltd. 1,385,415 43 Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41		· · ·	43,196
Comfort Systems USA Inc. 975,502 42 Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41			43,045
Dycom Industries Inc. 787,929 42 Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41			42,610
Harsco Corp. 2,139,270 42 Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41	,		42,580
Colfax Corp. 2,026,939 42 TopBuild Corp. 933,250 41 Covanta Holding Corp. 3,127,482 41 ESCO Technologies Inc. 632,884 41			42,486
* TopBuild Corp. 933,250 41, Covanta Holding Corp. 3,127,482 41, ESCO Technologies Inc. 632,884 41,			42,363
Covanta Holding Corp. 3,127,482 41, ESCO Technologies Inc. 632,884 41,			41,996
ESCO Technologies Inc. 632,884 41,		·	41,971
			41,739
Forward Air Corp. 759,820 41,			41,676

			Market
			Value
		Shares	(\$000)
*	Cubic Corp. Itron Inc.	774,637 877,045	41,629 41,475
*	Sanmina Corp.	1,715,022	41,475
	Kaman Corp.	724,085	40,614
	Universal Forest Products Inc.	1,558,440	40,457
*	Anixter International Inc.	732,146	39,763
	HEICO Corp.	508,953	39,434
*	MINDBODY Inc. Class A	1,083,292	39,432
*	Aerovironment Inc.	569,090	38,670
	Mueller Water Products Inc. Class A	4,186,606	38,098
*	Saia Inc.	675,834	37,725
	Badger Meter Inc.	753,717	37,090
	Mobile Mini Inc.	1,164,443	36,971
*	Summit Materials Inc. Class A	2,977,386	36,920
	Werner Enterprises Inc.	1,242,265	36,696
	World Fuel Services Corp. US Ecology Inc.	1,694,212 574,402	36,273 36,176
	AAON Inc.	1,025,331	35,948
	Matson Inc.	1,107,225	35,453
	Schneider National Inc. Class B	1,893,676	35,355
	ManTech International Corp. Class A	675,356	35,318
*	Evolent Health Inc. Class A	1,753,398	34,980
*	Navistar International Corp.	1,324,129	34,361
	Greenbrier Cos. Inc.	865,938	34,239
	Raven Industries Inc.	939,653	34,006
	Mueller Industries Inc.	1,432,745	33,469
*	Builders FirstSource Inc.	3,060,768	33,393
*	Air Transport Services Group Inc.	1,457,990	33,257
	Actuant Corp. Class A	1,577,741	33,117
	Rush Enterprises Inc. Class A	955,821	32,957
*	Masonite International Corp.	731,057	32,773
*	EnPro Industries Inc. SPX FLOW Inc.	543,251 1,060,507	32,649 32,534
	AAR Corp.	1,069,507 868,649	32,534
*	Knowles Corp.	2,414,681	32,439
*	TriMas Corp.	1,166,900	31,845
*	OSI Systems Inc.	433,541	31,779
*	Hub Group Inc. Class A	839,822	31,132
	McGrath RentCorp	604,383	31,114
	Federal Signal Corp.	1,533,613	30,519
	ICF International Inc.	470,548	30,482
*	Kratos Defense & Security Solutions Inc.	2,155,316	30,368
*	SPX Corp.	1,082,250	30,314
*	Huron Consulting Group Inc.	586,973	30,118
*	Gibraltar Industries Inc.	843,143	30,007
*	Casella Waste Systems Inc. Class A Greif Inc. Class A	1,048,009	29,858
*,^	Ambarella Inc.	789,980 823,403	29,316 28,803
,	Navigant Consulting Inc.	1,167,886	28,088
	AZZ Inc.	671,303	27,094
	Lindsay Corp.	281,044	27,050
*	CBIZ Inc.	1,370,127	26,991
	Benchmark Electronics Inc.	1,231,518	26,084
*	BMC Stock Holdings Inc.	1,683,867	26,066
*	Pluralsight Inc. Class A	1,091,991	25,716
*	Electro Scientific Industries Inc.	858,248	25,713
*	Sykes Enterprises Inc.	1,035,291	25,603
*	Atlas Air Worldwide Holdings Inc.	604,951	25,523
*	JELD-WEN Holding Inc.	1,793,480	25,485
*,^	Inovalon Holdings Inc. Class A	1,796,859	25,479
*	Cardtronics plc Class A Encore Wire Corp.	977,419 504,763	25,413
	Encore Wire Corp. Boise Cascade Co.	504,762 1,042,310	25,329 24,859
*	Continental Building Products Inc.	976,578	24,854
	Continental Dallaling Froducts inc.	970,970	24,004

			Market
			Value
_		Shares	(\$000)
	Sun Hydraulics Corp.	737,075	24,464
*	Atkore International Group Inc. Aircastle Ltd.	1,228,299 1,400,193	24,369 24,139
	KEMET Corp.	1,400,193	24,139
*	Verra Mobility Corp.	2,439,800	23,812
	Advanced Drainage Systems Inc.	978,901	23,738
*	TTM Technologies Inc.	2,414,417	23,492
*	PGT Innovations Inc.	1,457,305	23,098
*	TrueBlue Inc.	1,030,124	22,920
	Kadant Inc.	280,234	22,828
	Tennant Co.	431,615	22,491
	Heartland Express Inc.	1,200,076	21,961
	ArcBest Corp.	640,406	21,940
*	Apogee Enterprises Inc. Milacron Holdings Corp.	725,282 1,819,072	21,650 21,629
	Standex International Corp.	318,261	21,029
	Methode Electronics Inc.	916,338	21,342
	Primoris Services Corp.	1,065,872	20,390
	AVX Corp.	1,325,010	20,206
*	Installed Building Products Inc.	580,126	19,544
	Douglas Dynamics Inc.	533,862	19,160
	Kforce Inc.	615,060	19,018
	CTS Corp.	718,354	18,598
	Wabash National Corp.	1,420,648	18,582
	Maxar Technologies Ltd.	1,547,928	18,513
	GrafTech International Ltd.	1,610,669	18,426
	Mesa Laboratories Inc.	87,324 F07,165	18,197
*	Astronics Corp. Vicor Corp.	597,165 480,517	18,184 18,159
	MTS Systems Corp.	452,070	18,142
*	FARO Technologies Inc.	439,263	17,852
	Alamo Group Inc.	230,635	17,833
	Cass Information Systems Inc.	335,547	17,757
*,^	MACOM Technology Solutions Holdings Inc.	1,204,795	17,482
	Gorman-Rupp Co.	528,589	17,132
	H&E Equipment Services Inc.	837,846	17,109
*	Patrick Industries Inc.	572,818	16,961
*	Tutor Perini Corp.	1,052,195	16,804
	Columbus McKinnon Corp.	552,359	16,648
*	Astec Industries Inc. Thermon Group Holdings Inc.	551,052 817,108	16,636 16,571
	Kelly Services Inc. Class A	804,273	16,472
*	SEACOR Holdings Inc.	420,248	15,549
*	NV5 Global Inc.	256,442	15,528
*	Gates Industrial Corp. plc	1,169,306	15,482
	Marten Transport Ltd.	950,214	15,384
*	Evo Payments Inc. Class A	623,366	15,378
	Hyster-Yale Materials Handling Inc.	244,576	15,154
*,^	US Concrete Inc.	419,838	14,812
	Argan Inc.	388,590	14,704
	Heidrick & Struggles International Inc.	470,577	14,677
*	Triumph Group Inc.	1,236,161	14,216
*	Echo Global Logistics Inc. Engility Holdings Inc.	694,980 485,605	14,129 13,820
*	Manitowoc Co. Inc.	923,440	13,620
	Briggs & Stratton Corp.	1,023,156	13,383
	Global Brass & Copper Holdings Inc.	526,608	13,244
	DMC Global Inc.	370,109	12,998
	Kimball International Inc. Class B	915,360	12,989
*	Aegion Corp. Class A	772,491	12,607
	Quanex Building Products Corp.	925,744	12,581
	Ennis Inc.	651,478	12,541
	Myers Industries Inc.	804,543	12,157
*	Control4 Corp.	677,747	11,928

			Market Value
		Shares	(\$000)
	Insteel Industries Inc.	490,926	11,920
	Donnelley Financial Solutions Inc.	841,113	11,801
	Team Inc.	792,619	11,612
	DXP Enterprises Inc.	401,573	11,180
	National Research Corp.	289,778	11,052
	CAI International Inc.	474,091	11,013
	Ducommun Inc.	303,154	11,011
	MYR Group Inc.	390,071	10,988
	Resources Connection Inc.	761,653	10,815
	Essendant Inc.	851,883	10,717
	Park Electrochemical Corp.	586,069 110,611	10,590
	NVE Corp.	119,611	10,471
*	Great Lakes Dredge & Dock Corp.	1,577,589	10,444
	Barrett Business Services Inc.	182,268	10,435
	TTEC Holdings Inc.	359,368	10,267 9,958
	Quad/Graphics Inc. Heritage-Crystal Clean Inc.	808,240	9,958
	Kimball Electronics Inc.	423,201 626,636	9,738
	Willdan Group Inc.	273,086	9,553
	International Seaways Inc.	541,935	9,553
	Miller Industries Inc.	336,376	9,120
	Daktronics Inc.	1,216,874	9,002
	Veeco Instruments Inc.	1,213,128	8,989
	CryoPort Inc.	807,045	8,902
	Allied Motion Technologies Inc.	199.138	8,899
	Sterling Construction Co. Inc.	797,204	8,682
	Landec Corp.	719,371	8,517
	CRA International Inc.	195,182	8,305
	Graham Corp.	351,213	8,022
	UFP Technologies Inc.	261,648	7,860
	Livent Corp.	567,839	7,836
	Vishay Precision Group Inc.	258,080	7,802
	NN Inc.	1,152,697	7,735
	Cross Country Healthcare Inc.	1,036,334	7,596
	Nuvectra Corp.	445,301	7,276
	B. Riley Financial Inc.	508,674	7,223
	Armstrong Flooring Inc.	606,011	7,175
	Multi-Color Corp.	200,788	7,046
	Hurco Cos. Inc.	194,786	6,954
	Franklin Covey Co.	303,613	6,780
	Powell Industries Inc.	269,908	6,750
	Energy Recovery Inc.	999,797	6,729
	VSE Corp.	222,438	6,653
	Blue Bird Corp.	364,293	6,626
*	Eagle Bulk Shipping Inc.	1,428,322	6,585
	Advanced Emissions Solutions Inc.	622,187	6,564
*	PRGX Global Inc.	685,615	6,493
*	Northwest Pipe Co.	273,289	6,365
	Park-Ohio Holdings Corp.	206,719	6,344
*	IntriCon Corp.	239,580	6,320
	BlueLinx Holdings Inc.	253,321	6,260
	Spartan Motors Inc.	857,118	6,197
*	Information Services Group Inc.	1,427,047	6,051
*	Mistras Group Inc.	420,304	6,044
	Covenant Transportation Group Inc. Class A	302,080	5,800
	CECO Environmental Corp.	840,101	5,671
*	Twin Disc Inc.	380,026	5,605
*	Era Group Inc.	632,959	5,532
	BG Staffing Inc.	267,691	5,528
	InnerWorkings Inc.	1,431,173	5,353
	GP Strategies Corp.	421,245	5,312
		.2.,2.0	
*	Napco Security Technologies Inc.	336,052	5,293
*		·	

			Market
		Shares	Value (\$000)
	Omega Flex Inc.	91,330	4,938
	Bel Fuse Inc. Class B	266,476	4,908
*	ShotSpotter Inc.	154,978	4,832
*	Commercial Vehicle Group Inc.	817,175	4,658
*	Everi Holdings Inc.	893,033	4,599
	Griffon Corp.	439,398	4,592
*	Radiant Logistics Inc.	1,061,854	4,513
	EVI Industries Inc.	134,817	4,496
*	Willis Lease Finance Corp.	128,860	4,459
*	LB Foster Co. Class A	278,605	4,430
*	Daseke Inc.	1,202,357	4,425
	Eastern Co.	180,832	4,373
*	Acacia Research Corp.	1,435,005	4,276
*	Intevac Inc.	751,302	3,929
*	Lawson Products Inc.	120,622	3,812
*,^	Energous Corp.	652,950	3,781
*	CyberOptics Corp.	212,407	3,745
	USA Truck Inc.	249,697	3,738
	Gencor Industries Inc.	332,187	3,644
*,^	Orion Group Holdings Inc. Turtle Beach Corp.	841,239 248,034	3,609 3,539
,	NACCO Industries Inc. Class A	101,152	3,429
	Universal Logistics Holdings Inc.	187,298	3,388
*	Transcat Inc.	176,375	3,355
*,^	Cardlytics Inc.	309,483	3,352
	United States Lime & Minerals Inc.	47,159	3,348
	Crawford & Co. Class A	367,479	3,271
*	IES Holdings Inc.	209,645	3,260
*	Foundation Building Materials Inc.	381,771	3,173
	Crawford & Co. Class B	350,182	3,152
*	General Finance Corp.	305,932	3,093
	Global Water Resources Inc.	295,043	2,992
*	Iteris Inc.	792,279	2,955
	Richardson Electronics Ltd.	339,072	2,947
*	ServiceSource International Inc.	2,650,656	2,863
*	OptimizeRx Corp.	258,343	2,834
*	PAM Transportation Services Inc.	65,281	2,573
*,^	Maxwell Technologies Inc.	1,219,253	2,524
*,^	Houston Wire & Cable Co. Asure Software Inc.	465,712	2,356
*	StarTek Inc.	452,640 338,150	2,299 2,249
*	Luna Innovations Inc.	659,902	2,249
*	Ultralife Corp.	324,252	2,189
*,^	Forterra Inc.	565,451	2,126
*	Universal Technical Institute Inc.	564,724	2,061
*	Frequency Electronics Inc.	191,069	2,025
*,^	ExOne Co.	303,438	2,009
*	3PEA International Inc.	564,546	1,987
*	DHI Group Inc.	1,254,116	1,906
*	Arotech Corp.	717,564	1,880
*	Perceptron Inc.	207,487	1,672
*	CIRCOR International Inc.	73,933	1,575
*	Patriot Transportation Holding Inc.	80,602	1,571
*,^	Aqua Metals Inc.	841,348	1,531
*,^	MicroVision Inc.	2,514,638	1,519
	RF Industries Ltd.	201,049	1,460
	Steel Connect Inc.	822,121	1,422
*	CPI Aerostructures Inc.	222,135	1,415
*	NCI Building Systems Inc.	191,859	1,391
*	Goldfield Corp.	599,302 430,733	1,354
*	Lincoln Educational Services Corp. Wesco Aircraft Holdings Inc.	420,738 156,685	1,346 1,238
*	Perma-Pipe International Holdings Inc.	139,330	1,238
*	Sharps Compliance Corp.	345,073	1,132
	onarpo compilarios corp.	340,073	1,102

			Market Value
		Shares	(\$000)
*	IEC Electronics Corp.	195,868	1,120
	LSI Industries Inc.	337,386	1,070
*,^	Horizon Global Corp.	692,184	990
*,^	eMagin Corp. FreightCar America Inc.	941,638 136,294	970 912
	Espey Manufacturing & Electronics Corp.	36,513	910
*	NRC Group Holdings Corp.	115,588	884
*	Hudson Global Inc.	612,530	827
*	Taylor Devices Inc.	67,427	809
	Issuer Direct Corp.	68,008	772
*	Charah Solutions Inc.	91,860	767
	RR Donnelley & Sons Co.	189,623	751
*,^	LightPath Technologies Inc. Class A	479,513 100,337	714
	Tecogen Inc. AMCON Distributing Co.	168,227 6,102	611 609
*,^	Medical Transcription Billing Corp.	158,438	602
^	ADT Inc.	100,100	602
*	PFSweb Inc.	110,737	568
*	Wireless Telecom Group Inc.	316,572	560
*,^	Odyssey Marine Exploration Inc.	166,648	555
*	Air T Inc.	21,726	532
*	SIFCO Industries Inc.	152,452	526
* *	Greif Inc. Class B	11,156	495
*,^	Lightbridge Corp. ARC Document Solutions Inc.	754,234 193,400	411 396
	Ecology and Environment Inc.	34,432	390
*	ALJ Regional Holdings Inc.	287,886	377
	Chicago Rivet & Machine Co.	11,328	357
*	Image Sensing Systems Inc.	78,888	355
*	UQM Technologies Inc.	411,473	350
*	Manitex International Inc.	60,530	344
*	Perma-Fix Environmental Services	140,143	329
*	CUI Global Inc.	250,700	308
*	Rush Enterprises Inc. Class B DLH Holdings Corp.	7,149 52,984	254 251
*,^	Digital Ally Inc.	92,198	247
*	AMREP Corp.	41,229	245
*	Fuel Tech Inc.	195,916	233
*	Ballantyne Strong Inc.	174,184	200
*,^	Workhorse Group Inc.	376,786	199
*	Rubicon Technology Inc.	24,849	196
*	Command Security Corp.	69,851	196
*,^	Capstone Turbine Corp.	312,203	187
*	Vertex Energy Inc. Broadwind Energy Inc.	175,910 134,882	179 175
*	Black Box Corp.	161,725	175
*,^	Applied DNA Sciences Inc.	423,983	170
*	Coda Octopus Group Inc.	28,445	166
*	Jewett-Cameron Trading Co. Ltd.	21,200	151
*	Summit Wireless Technologies Inc.	40,430	138
	LSC Communications Inc.	17,799	125
*,^	Revolution Lighting Technologies Inc.	294,100	116
*	Pioneer Power Solutions Inc.	19,717	104
*	Continental Materials Corp. US Xpress Enterprises Inc. Class A	8,941 15,500	97 87
*,^	DPW Holdings Inc.	643,967	66
*,^	Research Frontiers Inc.	41,627	65
*	AeroCentury Corp.	6,716	64
*,^	Marathon Patent Group Inc.	165,563	60
*	Huttig Building Products Inc.	32,919	59
*	Volt Information Sciences Inc.	27,105	58
*	Payment Data Systems Inc.	30,184	50
_	Servotronics Inc.	4,914	49
-	LGL Group Inc.	7,908	48

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B. B. Bel Fuse in Cises A 2,773 38 A SV Holdings Inc. 15,896 32 Energy Focus Inc. 4,994 22 Industrial Survices of America Inc. 22,612 22 Industrial Survices of America Inc. 31,228 25 Air Industries Group 30,232 28 Air Industries Group 30,237 21 Boolight Corp. Class A 11,2600 15 Huddon Technologies Inc. 8,677 8 Ousest Resource Holding Corp. 7,000 3 Incentification of Central Corp. 12,8819 3 Centres Kinc. 820 — Darran LPG Ltd. 20 — II Seas (50%) 86,436,752 86,436,752 II Seas (50%) 86,436,752 13,436,464 7,700,317 Cherrice Kinc. 80,000 86,436,752 13,436,476 86,436,752			Shares	Value (\$000)
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* Par Pacific Holdings Inc. 845,220 11,985 * KLX Energy Services Holdings Inc. 509,580 11,950 * Matrix Service Co. 658,160 11,807 Liberty Oilfield Services Inc. Class A 908,424 11,764 * Enphase Energy Inc. 2,166,590 10,248 * REX American Resources Corp. 145,927 9,939 * Keane Group Inc. 1,203,078 9,841 * Bonanza Creek Energy Inc. 469,584 9,706	*,^	Resolute Energy Corp.	457,673	13,263
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* Bonanza Creek Energy Inc. 469,584 9,706	*		•	
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VVXL QUADUE IIIG. 7.5.5.49.5 9 N14	*	W&T Offshore Inc.	2,333,453	9,614

			Market Value
_		Shares	(\$000)
*	Nine Energy Service Inc.	392,059	8,837
*,^	Forum Energy Technologies Inc.	2,128,461	8,791
*	SunPower Corp. Class A Roan Resources Inc.	1,633,340	8,118
*	Talos Energy Inc.	954,515 487,490	7,999 7,956
^	Solaris Oilfield Infrastructure Inc. Class A	655,269	7,930
*	HighPoint Resources Corp.	2,836,688	7,063
*	Natural Gas Services Group Inc.	408.122	6,710
*	Ameresco Inc. Class A	472,549	6,663
	Panhandle Oil and Gas Inc. Class A	420,425	6,517
	Mammoth Energy Services Inc.	341,448	6,139
*	TETRA Technologies Inc.	3,516,988	5,909
*	FTS International Inc.	828,010	5,887
	Evolution Petroleum Corp.	850,210	5,798
*	Abraxas Petroleum Corp.	4,689,560	5,112
*,^	American Superconductor Corp.	424,134	4,729
*	Trecora Resources	598,320	4,667
*	SilverBow Resources Inc.	195,058	4,611
*	Green Brick Partners Inc.	624,917	4,524
*	Independence Contract Drilling Inc.	1,382,906	4,315
*,^	SEACOR Marine Holdings Inc.	336,561	3,958
*	Legacy Reserves Inc. Chaparral Energy Inc. Class A	2,558,847 763,888	3,941 3,758
*	Goodrich Petroleum Corp.	265,176	3,580
*,^	Plug Power Inc.	2,389,426	2,963
*	Geospace Technologies Corp.	271,004	2,794
	Berry Petroleum Corp.	319,148	2,793
*,^	Bristow Group Inc.	1,026,587	2,495
*	Gulf Island Fabrication Inc.	342,749	2,475
*	Infrastructure and Energy Alternatives Inc.	296,274	2,426
*	Contango Oil & Gas Co.	694,493	2,257
*,^	Comstock Resources Inc.	469,715	2,128
	Adams Resources & Energy Inc.	52,702	2,040
*	Isramco Inc.	17,203	2,039
*	Earthstone Energy Inc. Class A	446,981	2,020
*	Dawson Geophysical Co.	580,779	1,963
*	Altus Midstream Co. Class A	240,505	1,859
*	NCS Multistage Holdings Inc.	323,026	1,644
	Lonestar Resources US Inc. Class A	442,746	1,616
*,^	FuelCell Energy Inc.	2,644,061	1,456
*,^	EP Energy Corp. Class A Ring Energy Inc.	1,635,435 188,279	1,145 956
*,^	US Well Services Inc.	139,200	905
*	Ranger Energy Services Inc.	174,110	900
*	Quintana Energy Services Inc.	240,859	833
*	SandRidge Energy Inc.	107,291	816
*	VAALCO Energy Inc.	518,252	762
*,^	Approach Resources Inc.	543,177	474
*	Hornbeck Offshore Services Inc.	304,438	438
*	Superior Drilling Products Inc.	341,897	400
*	Pioneer Energy Services Corp.	322,269	396
*	ION Geophysical Corp.	71,876	372
*,^	Torchlight Energy Resources Inc.	496,202	280
*	Mitcham Industries Inc.	103,443	265
*	Rosehill Resources Inc. Class A	83,245	186
*,^	Talos Energy Inc. Warrants Exp. 02/28/2021	116,107	131
*,^	Zion Oil & Gas Inc.	264,857	111
*,^	Enservco Corp.	243,940	90
*,^	PHI Inc.	38,724	87
*,^	Ideal Power Inc.	94,214	23
*	Flotek Industries Inc.	16,578	18
*	Tidewater Inc. Warrants Series A Tidewater Inc. Warrants Series B	8,839 9,555	15 13
*	PEDEVCO Corp.	9,555 8,400	6
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		Shares	Value (\$000)
_	C		
	Cerner Corp. VeriSign Inc.	8,366,529 2,907,099	438,741 431,094
	Harris Corp.	3,138,824	422,643
*	Splunk Inc.	3,136,624	410,316
	NetApp Inc.	6,716,627	400,781
	DXC Technology Co.	7,486,678	398,067
*	IAC/InterActiveCorp	2,073,642	379,559
	Maxim Integrated Products Inc.	7,400,696	376,325
	KLA-Tencor Corp.	4,084,860	365,554
	Citrix Systems Inc.	3,415,481	349,950
*	Synopsys Inc.	3,971,071	334,523
*	Cadence Design Systems Inc.	7,546,303	328,113
	CDW Corp.	4,011,628	325,142
*	ANSYS Inc.	2,230,098	318,770
	Skyworks Solutions Inc.	4,747,702	318,191
	Symantec Corp.	16,196,458	306,032
*	Arista Networks Inc.	1,409,656	297,014
*	Gartner Inc.	2,302,312	294,328
*	Veeva Systems Inc. Class A	3,253,391	290,593
	VMware Inc. Class A	2,027,441	278,023
*	GoDaddy Inc. Class A	4,231,820	277,692
*	Fortinet Inc.	3,854,252	271,455
	SS&C Technologies Holdings Inc.	5,999,489	270,637
	Western Digital Corp.	7,317,660	270,534
	Marvell Technology Group Ltd.	16,647,560	269,524
	Seagate Technology plc	6,854,022	264,497
	F5 Networks Inc.	1,612,967	261,349
-	Akamai Technologies Inc.	4,119,734	251,633
*	Juniper Networks Inc. PTC Inc.	9,182,752	247,108 235,664
*	Tableau Software Inc. Class A	2,842,753 1,905,859	228,703
	Leidos Holdings Inc.	3,995,734	210,655
*	Qorvo Inc.	3,326,026	201,990
*	Ultimate Software Group Inc.	790,269	193,513
*	ON Semiconductor Corp.	11,208,426	185,051
*	Tyler Technologies Inc.	980,923	182,275
*,^	Twilio Inc. Class A	2,003,301	178,895
*	Guidewire Software Inc.	2,157,588	173,103
*	Dell Technologies Inc.	3,409,565	166,625
*	Integrated Device Technology Inc.	3,438,371	166,520
	CDK Global Inc.	3,428,010	164,133
*	Paycom Software Inc.	1,329,799	162,834
*	EPAM Systems Inc.	1,369,194	158,840
*	Zendesk Inc.	2,714,375	158,438
*	Okta Inc.	2,463,128	157,148
*	Aspen Technology Inc.	1,882,954	154,741
	Teradyne Inc.	4,764,000	149,494
*	Nutanix Inc.	3,580,677	148,920
*	RingCentral Inc. Class A	1,735,872	143,105
	athenahealth Inc. ARRIS International plc	1,079,610	142,433
*	· ·	4,390,261	134,210
*	Ciena Corp. HubSpot Inc.	3,798,120 993,712	128,794 124,939
	Monolithic Power Systems Inc.	1,073,106	124,939
	Cypress Semiconductor Corp.	9,655,741	122,821
*	Proofpoint Inc.	1,454,947	121,939
*	Teradata Corp.	3,160,109	121,939
*	Cree Inc.	2,737,593	117,101
	LogMeIn Inc.	1,363,275	111,202
	Entegris Inc.	3,763,959	104,996
*	Medidata Solutions Inc.	1,548,084	104,372
*	Nuance Communications Inc.	7,672,139	101,502
*	RealPage Inc.	1,998,908	96,327
*	CACI International Inc. Class A	658,939	94,907
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Pure Storage Inc. Class A 5,478,283 A Snap Inc. 15,675,511 IZ Global Inc. 1,243,142 CommScope Holding Co. Inc. 5,123,208 Lumentum Holdings Inc. 1,987,966 Tech Data Corp. 1,019,712 Dropbox Inc. Class A 4,032,912 Blackbaud Inc. 1,296,397 A CI Worldwide Inc. 2,926,934 FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,748,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 Comm/ault Systems Inc. 1,113,345 Five9 Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,063,510	88,156
2 Global Inc.	88,091
CommScope Holding Co. Inc. 5,123,208 Lumentum Holdings Inc. 1,987,966 Tech Data Corp. 1,019,712 Dropbox Inc. Class A 4,032,912 Blackbaud Inc. 1,296,397 ACI Worldwide Inc. 2,926,934 FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 3,403,874	86,372
Lumentum Holdings Inc. 1,987,966 Tech Data Corp. 1,019,712 Dropbox Inc. Class A 4,032,912 Blackbaud Inc. 1,296,397 ACI Worldwide Inc. 2,926,934 FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 3,135,149 Oualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 3,403,874	86,249
- Tech Data Corp. 1,019,712 - Dropbox Inc. Class A 4,032,912 - Blackbaud Inc. 1,296,397 - ACI Worldwide Inc. 2,926,934 - FireEye Inc. 4,988,070 - Semtech Corp. 1,752,484 - Manhattan Associates Inc. 1,742,409 - Verint Systems Inc. 1,728,595 - 2U Inc. 1,464,509 NCR Corp. 3,140,685 - Science Applications International Corp. 1,129,585 - Cornerstone OnDemand Inc. 1,399,426 - Cabot Microelectronics Corp. 724,725 - Finisar Corp. 3,135,149 - Qualys Inc. 894,855 - CommVault Systems Inc. 1,113,345 - Five9 Inc. 1,482,752 - Perspecta Inc. 3,726,073 - Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 - Viavi Solutions Inc. 6,053,510 - MongoDB Inc. 709,395 - Ellie Mae Inc. 929,898 - Match Group Inc. 3,403,874	83,969
bropbox Inc. Class A Blackbaud Inc. 4,032,912 Blackbaud Inc. ACI Worldwide Inc. 2,926,934 FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 3,403,874	83,514
Blackbaud Inc. 1,296,397 ACI Worldwide Inc. 2,926,934 FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Billie Mae Inc. 929,898 Match Group Inc. 3,403,874	83,423
* ACI Worldwide Inc. 2,926,934 * FireEye Inc. 4,988,070 * Semtech Corp. 1,752,484 * Manhattan Associates Inc. 1,724,409 * Verint Systems Inc. 1,728,595 * 2U Inc. 1,464,509 * NCR Corp. 3,140,685 * Science Applications International Corp. 1,129,585 * Cornerstone OnDemand Inc. 1,399,426 * Cabot Microelectronics Corp. 724,725 * Finisar Corp. 3,135,149 * Qualys Inc. 894,855 * CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 * Match Group Inc. 1,355,756 * Box Inc. 3,403,874	82,392
FireEye Inc. 4,988,070 Semtech Corp. 1,752,484 Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2 U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 ^ MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	81,543
* Semtech Corp. 1,752,484 * Manhattan Associates Inc. 1,742,409 * Verint Systems Inc. 1,728,595 * 2U Inc. 1,464,509 * NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 * Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 * Finisar Corp. 3,135,149 * Qualys Inc. 894,855 * CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 * Match Group Inc. 1,355,756 * Box Inc. 3,403,874	80,988
Manhattan Associates Inc. 1,742,409 Verint Systems Inc. 1,728,595 2U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 1,482,752 Perspecta Inc. 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	80,857
* Verint Systems Inc. 1,728,595 * 2U Inc. 1,464,509 * NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 * Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 * Finisar Corp. 3,135,149 * Qualys Inc. 894,855 * CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 * Match Group Inc. 1,355,756 * Box Inc. 3,403,874	80,386
2U Inc. 1,464,509 NCR Corp. 3,140,685 Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	73,826
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Science Applications International Corp. 1,129,585 Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	72,815
Cornerstone OnDemand Inc. 1,399,426 Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	72,487
Cabot Microelectronics Corp. 724,725 Finisar Corp. 3,135,149 Qualys Inc. 894,855 CommVault Systems Inc. 1,113,345 Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Permier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	71,955 70,573
* Finisar Corp. 3,135,149 * Qualys Inc. 894,855 * CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 * Match Group Inc. 1,355,756 * Box Inc. 3,403,874	69,103
* Qualys Inc. 894,855 * CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	67,719
* CommVault Systems Inc. 1,113,345 * Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 * Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	66,881
Five9 Inc. 1,482,752 Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	65,788
Perspecta Inc. 3,726,073 Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	64,826
* Premier Inc. Class A 1,696,211 InterDigital Inc. 925,169 * Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	64,163
InterDigital Inc. 925,169 Viavi Solutions Inc. 6,053,510 MongoDB Inc. 709,395 Ellie Mae Inc. 929,898 Match Group Inc. 1,355,756 Box Inc. 3,403,874	63,353
* Viavi Solutions Inc. 6,053,510 * MongoDB Inc. 709,395 * Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	61,459
* Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	60,838
* Ellie Mae Inc. 929,898 ^ Match Group Inc. 1,355,756 * Box Inc. 3,403,874	59,405
* Box Inc. 3,403,874	58,425
	57,986
* Envestnet Inc. 1.158.002	57,457
	56,962
* Alteryx Inc. Class A 949,855	56,488
* Bottomline Technologies DE Inc. 1,144,216	54,922
* Cirrus Logic Inc. 1,603,790	53,214
* Zscaler Inc. 1,295,250	50,787
Cogent Communications Holdings Inc. 1,112,411	50,292
Pegasystems Inc. 1,047,138	50,085
* Alarm.com Holdings Inc. 955,378	49,555
Brooks Automation Inc. 1,880,571	49,233
* Q2 Holdings Inc. 972,269 * EchoStar Corp. Class A 1,297,555	48,176
	47,646
 NetScout Systems Inc. SailPoint Technologies Holding Inc. 1,985,633 1,985,698 	46,920 46,644
Power Integrations Inc. 1,965,696	44,972
* Allscripts Healthcare Solutions Inc. 4,643,594	44,764
* Advanced Energy Industries Inc. 1,028,729	44,163
* Avaya Holdings Corp. 1,026,729	42,394
Progress Software Corp. 1,182,936	41,982
* NETGEAR Inc. 796.714	41,453
* Everbridge Inc. 710,477	40,327
* Varonis Systems Inc. 747,796	39,558
* Apptio Inc. Class A 1,022,286	38,806
* Blackline Inc. 941,136	38,540
* SPS Commerce Inc. 465,388	38,339
^ Ubiquiti Networks Inc. 384,083	38,182
*^ Ceridian HCM Holding Inc. 1,106,454	38,162
* Insight Enterprises Inc. 935,948	38,140

			Market Value
		Shares	(\$000)
*	Cloudera Inc.	3,279,391	36,270
*,^	Inphi Corp.	1,104,989	35,525
*	Synaptics Inc.	915,242	34,056
*	Diodes Inc.	1,034,307	33,367
*	SendGrid Inc.	761,723	32,884
	Rapid7 Inc.	1,027,744	32,024
*	Instructure Inc. Blucora Inc.	838,016 1,172,050	31,434 31,223
*	MicroStrategy Inc. Class A	240,400	30,711
*	Acacia Communications Inc.	799.153	30,368
*	Vocera Communications Inc.	766.727	30,171
*	Virtusa Corp.	707,449	30,130
	Plantronics Inc.	900,208	29,797
*,^	3D Systems Corp.	2,903,549	29,529
	Pitney Bowes Inc.	4,964,771	29,342
	TiVo Corp.	3,084,039	29,021
*	Electronics For Imaging Inc.	1,159,795	28,763
*	LivePerson Inc.	1,503,108	28,349
*	MaxLinear Inc.	1,601,262	28,182
*	FormFactor Inc.	1,960,792	27,628
*	Hortonworks Inc.	1,895,500	27,333
*	Tabula Rasa HealthCare Inc.	428,501	27,321
	CSG Systems International Inc.	847,606	26,928
	Zuora Inc. Class A	1,460,971	26,502
*	PROS Holdings Inc. Workiva Inc.	838,957 718,304	26,343 25,780
	Ebix Inc.	586,970	24,981
*	ePlus Inc.	349,545	24,877
*	Pivotal Software Inc. Class A	1,521,496	24,876
*	Appfolio Inc.	404,016	23,926
*,^	Benefitfocus Inc.	518,045	23,685
	Xperi Corp.	1,273,879	23,427
*	Cray Inc.	1,068,029	23,059
*	Boingo Wireless Inc.	1,115,106	22,938
*	Cision Ltd.	1,927,388	22,550
*	ScanSource Inc.	655,509	22,536
*	Altair Engineering Inc. Class A	801,848	22,115
*	Lattice Semiconductor Corp.	3,185,055	22,041
*	Carbonite Inc.	853,682	21,564
*	Yext Inc.	1,435,784	21,321
	NextGen Healthcare Inc. NIC Inc.	1,368,007 1,637,460	20,725 20,435
*	ForeScout Technologies Inc.	780,249	20,433
*	Infinera Corp.	4,725,157	18,853
*	Extreme Networks Inc.	3,059,283	18,662
*	Perficient Inc.	827,035	18,410
*,^	Appian Corp. Class A	677,843	18,105
	Shutterstock Inc.	500,507	18,023
*	Photronics Inc.	1,748,545	16,926
*	Nanometrics Inc.	617,655	16,880
	Monotype Imaging Holdings Inc.	1,039,885	16,139
	Cohu Inc.	1,001,961	16,101
*	Unisys Corp.	1,331,348	15,484
*	Rudolph Technologies Inc.	754,852	15,452
*	Amkor Technology Inc.	2,353,828	15,441
*	Axcelis Technologies Inc.	799,789 563,904	14,236
*,^	Comtech Telecommunications Corp. Elastic NV	563,804 189,037	13,723
-,^	ADTRAN Inc.	188,937 1,238,362	13,505 13,300
*	Anaplan Inc.	495,938	13,300
*	Calix Inc.	1,276,368	12,445
	Presidio Inc.	952,452	12,449
*	Upland Software Inc.	454,865	12,363
*	CEVA Inc.	545,479	12,050
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Loral Space & Communications Inc. 322.32.25 10075				Market
Forester Research Inc. 265,275 11,865 8andwidth Inc. Class A 287,700 11,727			Shares	Value (\$000)
Bardwarth Inc. Class A 287,780 11,727	*	Loral Space & Communications Inc.	322,342	12,007
Endurance International Group Holidings Inc. 1,082,086 11,282				
Mink Systems Inc. 1,023,377 11,063 ColAmp Corp. 844,747 10,980 OneSpan Inc. 842,468 10,910 Basetts Stone Inc. 401,468 10,910 Harmonic Inc. 2,173,882 10,280 Computer Programs & Systems Inc. 401,468 10,070 AD Inc. Class A 255,441 10,000 Harbett Group Inc. 614,538 9,383 Converge/One Holdings Inc. 783,126 9,832 Systems Inc. 392,738 9,382 CharnelArdvisor Corp. 816,737 9,270 Quantenea Communications Inc. 643,432 9,103 PC Connection Inc. 644,167 8,933 Zix Corp. 1,526,900 9,749 Meer Group Inc. 1,526,900 9,749 Meer Group Inc. 1,526,900 9,749 Kayd Holding Corp. 1,288,967 9,887 Swetch Inc. 1,288,967 9,887 Swetch Inc. 1,288,967 9,888 Swetch Inc. 288,517 3,98 <td>*</td> <td></td> <td></td> <td></td>	*			
CalAmp Corp.	*			
Computer Programs & Systems Inc.	*			
Resetta Stone Inc. 261,73 882 10,260 Computer Programs & Systems Inc. 401,466 10,077 OAD Inc. Class A 255,442 10,047 Icher Holdings Ltd. 607,884 9,086 Hackett Group Inc. 783,128 9,585 ConvergeOne Holdings Inc. 783,128 9,585 Systems Inc. 987,87 9,587 Obstantiering Communications Inc. 844,322 9,100 Case Systems Inc. 864,167 8,833 Zix Corp. 1,586,003 8,749 Meet Croup Inc. 1,845,370 8,644 KeyW Holding Corp. 1,868,679 8,848 Switch Inc. 1,212,436 8,479 Smartsheel Inc. Class A 34,401 8,004 Everthitte Inc. Class A 38,289 8,062 Smartsheel Inc. Class A 38,289 8,062 Ziverus Inc. 38,289 8,062 Translet Inclinings Inc. 316,589 2,286 Digl International Inc. 365,589 2,775 Translet Foliolings Inc. </td <td>*</td> <td></td> <td></td> <td></td>	*			
Harmonic Inc.				
Computer Programs & Systems Inc. 401.466 10.077 OAD Inc. Class A 555.442 10.047 Incher Holdings Ltd. 607.884 9.088 Converge One Holdings Inc. 783.126 9.685 Systems kin. 392.738 9.382 Channel Advisor Corp. 1816.737 9.270 Quantenia Communications Inc. 634.332 9.103 PC Connection Inc. 302.976 9.007 Casa Systems linc. 302.975 9.007 Casa Systems linc. 1.565.003 3.749 Meet Group Inc. 1.565.003 3.749 KeyW Holding Corp. 1.268.867 8.883 Switch Inc. 1.268.867 8.883 Switch Inc. 1.268.867 8.893 Switch Inc. 1.268.867 8.893 Switch Inc. 1.278.86 8.894 Switch Inc. 1.288.36 8.894 Switch Inc. 1.288.36 8.894 Switch Inc. 1.288.36 8.894 Switch Inc. 1.288.36 8.894	*			
CAD Inc. Class A 255.44 10.047				
International Converge One Holdings Inc.				- / -
Hackert Group Inc. 614,588 9,839 Convergeone Holdings Inc. 788,1726 9,665 Systemax Inc. 392,738 9,822 Channel-Advisor Corp. 316,737 9,270 Ouantenna Communications Inc. 634,332 9,103 PC Connection Inc. 634,332 9,103 PC Connection Inc. 684,167 8,983 Zix Corp. 1526,903 8,749 Meet Group Inc. 1,845,370 8,144 8,465 8,983 Switch Inc. 1,212,456 8,487 3,298 Agilysys Inc. 1,212,456 8,298 3,2	*,^			
ConvergeOne Holdings Inc. 7831,268 9,895 Systams Inc. 382,738 9,882 ChannelAdvisor Corp. 816,737 9,270 Ounatena Communications Inc. 302,975 9,007 Cas Systems Inc. 302,975 9,007 Cas Systems Inc. 1,526,903 8,749 Moet Group Inc. 1,886,370 8,544 KeW Holding Corp. 1,268,967 8,489 Switch Inc. 1,212,436 8,487 Switch Inc. 334,021 8,304 Eventrie Inc. Class A 334,021 8,304 Eventrie Inc. Class A 334,021 8,298 Aglysys Inc. 576,517 8,296 Dig International Inc. 363,299 8,062 Vectrus Inc. 363,299 8,062 Vectrus Inc. 363,299 8,062 Vectrus Inc. 311,27,529 7,338 Transferieris Inc. 343,457 7,76 American Software Inc. Class A 734,558 7,676 DSP Group Inc. 523,409 7,255 <td>,</td> <td></td> <td>·</td> <td>,</td>	,		·	,
Systemisk Inc. 392,738 3,822 Channel Adwisor Corp. 634,332 9,103 PC Connection Inc. 634,332 9,103 PC Connection Inc. 684,167 8,883 Zix Corp. 1,566,903 8,749 Meet Group Inc. 1,845,370 8,544 KeyW Holding Corp. 1,212,436 8,487 Smitch Inc. 1,212,436 8,487 Smitch Inc. 1,212,436 8,487 Smitch Inc. 1,212,436 8,487 Smitch Inc. 1,345,372 8,298 Agilysis Inc. 2,963,72 8,298 Agilysis Inc. 816,590 8,239 Tenable Holdings Inc. 816,590 8,239 Tenable Holdings Inc. 363,299 8,002 Vectrus Inc. 3,455,475 7,764 American Software Inc. Class A 3,455,475 7,764 American Software Inc. Class A 3,455,475 7,764 American Software Inc. 3,455,475 7,764 American Software Inc. 3,455,475 <	^			
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KeyW Holding Corp. 1,212,436 8,489 Switch Inc. 1,212,436 8,481 Smartsheet Inc. Class A 334,021 8,304 Eventbrite Inc. Class A 298,372 8,298 Agliysys Inc. 578,517 8,296 Dig International Inc. 816,550 8,239 Tenable Holdings Inc. 363,299 8,062 Vectrus Inc. 369,581 7,976 Brightrove Inc. 1,127,529 7,938 TransEnterix Inc. 3,435,475 7,764 American Software Inc. Class A 734,558 7,676 DSP Group Inc. 523,409 7,265 DSP Group Inc. 523,409 7,265 NeoPhotonics Corp. 1,102,569 7,145 Immersion Corp. 1,102,569 7,145 Immersion Corp. 1,102,569 7,145 Amber Road Inc. 384,555 6,802 Alpha & Omega Semiconductor Ltd. 401,472 6,802 Alpha & Omega Semiconductor Ltd. 407,806 6,002 Ribbon Communications Inc. 1,583,185 6,159 USA Technologies Inc.	*	Zix Corp.		8,749
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⋅ USA Technologies Inc. 1,583,185 6,159 ⋅ SVMK Inc. 491,275 6,028 ⋅ PAR Technology Corp. 271,140 5,897 ⋅ Model N Inc. 445,201 5,897 ⋅ KVH Industries Inc. 533,364 5,488 ⋅ Diebold Nixdorf Inc. 2,174,945 5,416 ⋅ I S Verticals Inc. Class A 224,048 5,400 ⋅ Inseego Corp. 1,281,857 5,320 ⋅ Domo Inc. 259,987 5,104 ⋅ Aquantia Corp. 537,227 4,711 ⋅ AXT Inc. 1,021,165 4,442 ⋅ Telenav Inc. 1,064,501 4,322 ⋅ Aerohive Networks Inc. 1,301,751 4,244 ⋅ Preformed Line Products Co. 77,646 4,212 ⋅ AstroNova Inc. 221,491 4,153 ⋅ SecureWorks Corp. Class A 236,021 3,986 ⋅ MobileIron Inc. 856,575 3,932 ⋅ A10 Networks Inc. 606,164 3,782 ⋅ VirnetX Holding Corp. 1,536,400 3,687 ⋅ Ultra Clean Holdings Inc. 260,354 3,291	*	Ribbon Communications Inc.	1,344,720	6,482
*** SVMK Inc. 491,275 6,028 *** PAR Technology Corp. 271,140 5,897 *** Model N Inc. 445,201 5,890 *** KVH Industries Inc. 533,364 5,488 *** Diebold Nixdorf Inc. 2,174,945 5,416 *** I3 Verticals Inc. Class A 224,048 5,400 *** Inseego Corp. 1,281,857 5,320 *** Domo Inc. 259,987 5,104 ** Aquantia Corp. 537,227 4,711 ** Aquantia Corp. 537,227 4,711 ** Aquantia Corp. 1,021,165 4,442 ** Telenav Inc. 1,064,501 4,322 ** Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 236,021 3,986 ** MobileIron Inc. 856,575 3,932 ** A10 Networks Inc. 606,164 3,782 ** VirnetX Holding Corp. 1,536,400 3,687	*	Limelight Networks Inc.	2,677,555	6,265
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13 Verticals Inc. Class A 224,048 5,400 1 Inseego Corp. 1,281,857 5,320 1 Domo Inc. 259,987 5,104 2 Aquantia Corp. 537,227 4,711 2 AXT Inc. 1,021,165 4,442 3 Telenav Inc. 1,064,501 4,322 4 Aerohive Networks Inc. 1,301,751 4,244 4 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 2 SecureWorks Corp. Class A 236,021 3,986 MobileIron Inc. 856,575 3,932 A10 Networks Inc. 606,164 3,782 VirnetX Holding Corp. 1,536,400 3,687 Ultra Clean Holdings Inc. 422,797 3,581 RigNet Inc. 260,354 3,291	*			
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*** Domo Inc. 259,987 5,104 * Aquantia Corp. 537,227 4,711 * AXT Inc. 1,021,165 4,442 * Telenav Inc. 1,064,501 4,322 * Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 * SecureWorks Corp. Class A 236,021 3,986 * MobileIron Inc. 856,575 3,932 * A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291				
- Aquantia Corp. 537,227 4,711 - AXT Inc. 1,021,165 4,442 - Telenav Inc. 1,064,501 4,322 - Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 - SecureWorks Corp. Class A 236,021 3,986 - MobileIron Inc. 856,575 3,932 - A10 Networks Inc. 606,164 3,782 - VirnetX Holding Corp. 1,536,400 3,687 - Ultra Clean Holdings Inc. 422,797 3,581 - RigNet Inc. 260,354 3,291		9 ,		
* AXT Inc. 1,021,165 4,442 * Telenav Inc. 1,064,501 4,322 * Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 * SecureWorks Corp. Class A 236,021 3,986 * MobileIron Inc. 856,575 3,932 * A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291	*			
* Telenav Inc. 1,064,501 4,322 * Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 * SecureWorks Corp. Class A 236,021 3,986 * MobileIron Inc. 856,575 3,932 * A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291	*	·	•	
* Aerohive Networks Inc. 1,301,751 4,244 Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 * SecureWorks Corp. Class A 236,021 3,986 * MobileIron Inc. 856,575 3,932 * A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291	*			
Preformed Line Products Co. 77,646 4,212 AstroNova Inc. 221,491 4,153 SecureWorks Corp. Class A 236,021 3,986 MobileIron Inc. 856,575 3,932 A10 Networks Inc. 606,164 3,782 VirnetX Holding Corp. 1,536,400 3,687 Ultra Clean Holdings Inc. 422,797 3,581 RigNet Inc. 260,354 3,291	*			
AstroNova Inc. 221,491 4,153 SecureWorks Corp. Class A 236,021 3,986 MobileIron Inc. 856,575 3,932 A10 Networks Inc. 606,164 3,782 VirnetX Holding Corp. 1,536,400 3,687 Ultra Clean Holdings Inc. 422,797 3,581 RigNet Inc. 260,354 3,291				
** SecureWorks Corp. Class A 236,021 3,986 ** MobileIron Inc. 856,575 3,932 ** A10 Networks Inc. 606,164 3,782 ** VirnetX Holding Corp. 1,536,400 3,687 ** Ultra Clean Holdings Inc. 422,797 3,581 ** RigNet Inc. 260,354 3,291				
* MobileIron Inc. 856,575 3,932 * A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291	*			
* A10 Networks Inc. 606,164 3,782 * VirnetX Holding Corp. 1,536,400 3,687 * Ultra Clean Holdings Inc. 422,797 3,581 * RigNet Inc. 260,354 3,291	*			
Ultra Clean Holdings Inc. 422,797 3,581 RigNet Inc. 260,354 3,291	*	A10 Networks Inc.		
* RigNet Inc. 260,354 3,291	*,^	VirnetX Holding Corp.	1,536,400	3,687
	*			
* eGain Corp. 486,960 3,199	*			
	*	eGain Corp.	486,960	3,199

			Market Value
_		Shares	(\$000)
*,^	Adesto Technologies Corp.	716,531	3,153
*	EMCORE Corp. Clearfield Inc.	727,792 305,057	3,057 3,026
*	Telaria Inc.	1,104,370	3,020
*	Tucows Inc. Class A	49,142	2,951
*,^	Internap Corp.	679,210	2,819
*	VOXX International Corp. Class A	703,399	2,785
*	Rambus Inc.	362,634	2,781
*	Pixelworks Inc.	954,893	2,769
*	Exela Technologies Inc.	711,591	2,768
*	DASAN Zhone Solutions Inc.	188,838	2,627
*	GSI Technology Inc.	465,560	2,393
*	SharpSpring Inc.	185,762	2,365
*	ID Systems Inc.	417,726	2,335
*,^	Airgain Inc.	223,147	2,211
*,^	Park City Group Inc.	368,561	2,200
*	Great Elm Capital Group Inc.	624,106	2,109
	ACM Research Inc. Class A	193,846	2,109
*,^	Applied Optoelectronics Inc.	132,326	2,042
	TESSCO Technologies Inc.	159,219	1,911
*,^	TransAct Technologies Inc. Everspin Technologies Inc.	211,460	1,899 1,809
*,^	Fusion Connect Inc.	322,450 1,071,837	1,809
*	Amtech Systems Inc.	385,770	1,748
*	Key Tronic Corp.	304,070	1,748
*	NetSol Technologies Inc.	277,534	1,710
	GlobalSCAPE Inc.	378,890	1,697
*	Rimini Street Inc.	325,063	1,674
*	Computer Task Group Inc.	407,746	1,664
*	LRAD Corp.	644,065	1,623
*	Aviat Networks Inc.	122,447	1,622
*	Finjan Holdings Inc.	639,801	1,606
*	RumbleON Inc. Class B	295,778	1,591
*	inTEST Corp.	241,044	1,478
*	Aware Inc.	406,847	1,469
*	Support.com Inc.	561,252	1,381
*,^	Impinj Inc.	90,225	1,313
*	Seachange International Inc.	1,040,931	1,312
*	Synacor Inc.	885,396	1,310
*,^	QuickLogic Corp.	1,644,442	1,207
	QAD Inc. Class B	39,531	1,167
	Majesco Identiv Inc.	157,868 308.510	1,119 1,111
*,^	Veritone Inc.	270,146	1,111
*	Innodata Inc.	643,214	965
*	Lantronix Inc.	311,918	917
*	WideOpenWest Inc.	125,680	896
*	Data I/O Corp.	173,820	869
*,^	Smith Micro Software Inc.	471,123	848
	Wayside Technology Group Inc.	83,158	832
*,^	Atomera Inc.	284,266	816
*	Alithya Group Inc. Class A	326,419	774
*,^	nLight Inc.	41,105	731
*	Intelligent Systems Corp.	52,948	684
*	Aehr Test Systems	428,242	604
*,^	Red Violet Inc.	87,451	589
*	CynergisTek Inc.	110,248	523
*	Mastech Digital Inc.	82,130	517
*	RCM Technologies Inc.	159,911	496
	BK Technologies Inc.	131,368	493
*	WidePoint Corp.	1,141,609	476
*	Kopin Corp.	475,143	475
*	Neurotrope Inc.	132,689	474
	CSP Inc.	46,940	459

			Market Value
		Shares	(\$000)
*	GSE Systems Inc.	209,878	441
*,^	Intellicheck Inc.	196,842	421
*,^	SITO Mobile Ltd.	442,391	398
*	lcad Inc.	102,068	378
*	Avalara Inc.	11,995	374
	Network-1 Technologies Inc.	160,430	358
*	BSQUARE Corp.	220,173	341 295
*	Inuvo Inc. Intermolecular Inc.	275,566 237,326	240
	ClearOne Inc.	190,824	239
*	Optical Cable Corp.	54,796	209
*	Castlight Health Inc. Class B	94,575	205
*,^	Ominto Inc.	265,206	183
*	FTE Networks Inc.	76,480	179
*,^	Gogo Inc.	53,600	160
*	One Stop Systems Inc.	82,010	159
*	Digimarc Corp.	9,978	145
*	AudioEye Inc.	14,532	124
*,^	NXT-ID Inc.	175,954	120
*	CVD Equipment Corp.	21,000	75
*	Xcel Brands Inc.	38,685	44
*	ADDvantage Technologies Group Inc.	29,519	41
*	Trio-Tech International	15,252	38
*	Qumu Corp.	15,217	29
*	BroadVision Inc.	20,868	24
	Qualstar Corp.	4,300	23
	Quantum Corp. Streamline Health Solutions Inc.	6,550	13 12
*	SilverSun Technologies Inc.	16,133 2,301	5
	Sigma Designs Inc.	33,890	5
*,^	Neonode Inc.	1	_
T-1			129,856,855
Tel	ecommunications (2.0%)	110 201 047	
Tel	Verizon Communications Inc.	110,381,847 194,426,250	6,205,667
Tel	Verizon Communications Inc. AT&T Inc.	194,426,250	6,205,667 5,548,925
Tel	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc.	194,426,250 7,923,046	6,205,667 5,548,925 503,985
Tel	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc.	194,426,250 7,923,046 25,951,362	6,205,667 5,548,925 503,985 393,163
* * *	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc.	194,426,250 7,923,046	6,205,667 5,548,925 503,985 393,163 122,522
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc.	194,426,250 7,923,046 25,951,362 5,364,348	6,205,667 5,548,925 503,985 393,163
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487	6,205,667 5,548,925 503,985 393,163 122,522 94,584
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798
*	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572
* *,^ * * * * * * * * * * * * * * * * *	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601
* *,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934
* *,^ * * * * * * * * * * * * * * * * *	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc. IDT Corp. Class B	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc. IDT Corp. Class B Windstream Holdings Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc. IDT Corp. Class B Windstream Holdings Inc. Alaska Communications Systems Group Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699 1,208,737	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505 1,741
*,^	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc. IDT Corp. Class B Windstream Holdings Inc. Alaska Communications Systems Group Inc. Otelco Inc. Class A	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699 1,208,737 54,117	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505 1,741 875
	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. IDT Corp. Class B Windstream Holdings Inc. Alaska Communications Systems Group Inc. Otelco Inc. Class A CPS Technologies Corp. Cincinnati Bell Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699 1,208,737 54,117 97,017	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505 1,741 875
	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. HC2 Holdings Inc. IDT Corp. Class B Windstream Holdings Inc. Alaska Communications Systems Group Inc. Otelco Inc. Class A CPS Technologies Corp. Cincinnati Bell Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699 1,208,737 54,117 97,017 2,660	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505 1,741 875 115 21
	Verizon Communications Inc. AT&T Inc. T-Mobile US Inc. CenturyLink Inc. Zayo Group Holdings Inc. Sprint Corp. Telephone & Data Systems Inc. Shenandoah Telecommunications Co. Vonage Holdings Corp. Intelsat SA Iridium Communications Inc. 8x8 Inc. GTT Communications Inc. United States Cellular Corp. ATN International Inc. ORBCOMM Inc. pdvWireless Inc. Spok Holdings Inc. Pareteum Corp. Consolidated Communications Holdings Inc. IDT Corp. Class B Windstream Holdings Inc. Alaska Communications Systems Group Inc. Otelco Inc. Class A CPS Technologies Corp. Cincinnati Bell Inc.	194,426,250 7,923,046 25,951,362 5,364,348 16,251,487 2,527,027 1,240,394 5,774,774 2,197,609 2,518,809 2,427,820 1,169,509 418,682 273,281 1,999,068 336,231 648,636 2,327,685 387,885 1,293,005 458,358 1,198,699 1,208,737 54,117 97,017	6,205,667 5,548,925 503,985 393,163 122,522 94,584 82,229 54,887 50,414 47,007 46,472 43,798 27,671 21,759 19,548 16,512 12,572 8,601 3,934 3,832 3,414 2,837 2,505 1,741 875 115 21

		Market
	Shares	Value (\$000)
Dominion Energy Inc.	17,543,347	1,253,648
Southern Co.	27,095,393	1,190,030
Exelon Corp.	25,778,869	1,162,627
American Electric Power Co. Inc.	13,165,344	983,978
Sempra Energy	6,944,944	751,373
Public Service Enterprise Group Inc.	13,503,550	702,860
Xcel Energy Inc. Consolidated Edison Inc.	13,709,331	675,459
WEC Energy Group Inc.	8,685,562 8,426,412	664,098 583,613
Eversource Energy	8,463,740	550,482
PPL Corp.	19,227,679	544,720
DTE Energy Co.	4,855,381	535,548
FirstEnergy Corp.	13,657,268	512,830
Edison International	8,708,798	494,398
American Water Works Co. Inc.	4,823,296	437,811
Ameren Corp.	6,515,787	425,025
Entergy Corp.	4,824,531	415,247
Evergy Inc.	7,100,082	403,072
CenterPoint Energy Inc.	13,389,768	377,993
CMS Energy Corp.	7,555,427	375,127
* PG&E Corp.	13,844,520	328,807
NRG Energy Inc.	7,341,722	290,732
Atmos Energy Corp.	2,991,182	277,342
* Alliant Energy Corp.	6,280,486	265,351
AES Corp.	17,613,693	254,694
Pinnacle West Capital Corp.	2,977,580	253,690
NiSource Inc.	9,849,815	249,693
UGI Corp.	4,662,022	248,719
* Vistra Energy Corp.	10,751,315	246,098
SCANA Corp.	3,735,180 4,743,100	178,467 162,132
Aqua America Inc. Vectren Corp.	4,742,100 2,207,935	158,927
IDACORP Inc.	1,346,799	125,333
ONE Gas Inc.	1,399,718	111,418
New Jersey Resources Corp.	2,388,996	109,105
Portland General Electric Co.	2,373,720	108,835
Hawaiian Electric Industries Inc.	2,908,845	106,522
ALLETE Inc.	1,370,566	104,465
National Fuel Gas Co.	2,010,727	102,909
Southwest Gas Holdings Inc.	1,331,482	101,858
Black Hills Corp.	1,596,779	100,246
Spire Inc.	1,301,899	96,445
PNM Resources Inc.	2,126,465	87,376
Avangrid Inc.	1,683,599	84,331
NorthWestern Corp.	1,339,214	79,603
Avista Corp.	1,747,366	74,228
American States Water Co.	966,006	64,761
South Jersey Industries Inc.	2,288,870	63,631
California Water Service Group	1,270,275	60,541
Ormat Technologies Inc.	1,077,708	56,364
MGE Energy Inc.	932,888	55,936 54,540
El Paso Electric Co. Pattern Energy Group Inc. Class A	1,088,153 2,615,141	54,549 48,694
Northwest Natural Holding Co.	773,167	46,746
SJW Group	650,990	36,208
Chesapeake Utilities Corp.	417,582	33,949
* Sunrun Inc.	2,510,364	27,338
Middlesex Water Co.	412,408	22,002
Connecticut Water Service Inc.	322,275	21,550
Unitil Corp.	390,136	19,756
TerraForm Power Inc. Class A	1,676,182	18,807
* Evoqua Water Technologies Corp.	1,810,184	17,378
York Water Co.	349,426	11,203
Artesian Resources Corp. Class A	240,336	8,380

				Market Value
			Shares	(\$000)
*^ Cadiz Inc.			799,055	8,230
* Atlantic Power Corp.			3,317,157	7,198
* AquaVenture Holdings Ltd.			354,799	6,702
RGC Resources Inc. Pure Cycle Corp.			176,687 497.626	5,294 4.941
*A Bloom Energy Corp. Class A			458,981	4,581
*A Vivint Solar Inc.			1,081,504	4,121
Spark Energy Inc. Class A			334,801	2,488
Genie Energy Ltd. Class B			383,069	2,310
			_	21,923,009
Total Common Stocks (Cost \$473,160,255)				668,274,743
	Coupon			
Temporary Cash Investments (0.9%) ¹				
Money Market Fund (0.9%)	2.520%		FC 010 0F1	E 001 00E
3.4 Vanguard Market Liquidity Fund	2.530%		56,919,051	5,691,905
			Face	
		Maturity	Amount	
		Date	(\$000)	
U.S. Government and Agency Obligations (0.0%)				
5 United States Treasury Bill	2.350%-2.361%	3/21/19	80,000	79,598
5 United States Treasury Bill	2.432%-2.451%	4/18/19	70,000	69,509
United States Treasury Bill	2.077%	1/3/19	40,000	39,998
United States Treasury Bill	2.374%	3/7/19	35,000	34,853
5 United States Treasury Bill	2.292%	2/28/19	30,000	29,888
5 United States Treasury Bill	2.292%	2/21/19	10,000	9,967 263,813
Total Temporary Cash Investments (Cost \$5,955,110)				5,955,718
·				
Total Investments (100.3%) (Cost \$479,115,365)				674,230,461
Other Assets and Liabilities – Net (-0.3%)4.6				(2,034,797)
Net Assets (100%)				672,195,664

- * Non-income-producing security.
- ^ Includes partial security positions on loan to broker-dealers. The total value of securities on loan is \$2,480,929,000.
- § Security value determined using significant unobservable inputs.
- The fund invests a portion of its cash reserves in equity markets through the use of index futures contracts and swap contracts. After giving effect to futures and swap investments, the fund's effective common stock and temporary cash investment positions represent 100.0% and 0.3%, respectively, of net assets.
- 2 "Other" represents securities that are not classified by the fund's benchmark index.
- 3 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 4 Includes \$2,633,559,000 of collateral received for securities on loan.
- 5 Securities with a value of \$186,579,000 have been segregated as initial margin for open futures contracts.
- 6 Cash with a value of \$2,650,000 has been segregated as collateral for open over-the-counter swap contracts.
 - ADR—American Depositary Receipt.
 - CVR—Contingent Value Rights.
 - REIT—Real Estate Investment Trust.

