



Vanguard Total Stock Market Index Fund

A new format, unwavering commitment

As you begin reading this report, you'll notice that we've made some improvements to the opening sections—based on feedback from you, our clients.

Page 1 starts with a new "Your Fund's Performance at a Glance," a concise, handy summary of how your fund performed during the period.

In the renamed "Chairman's Perspective," Bill McNabb will focus on enduring principles and investment insights.

We've modified some tables, and eliminated some redundancy, but we haven't removed any information.

At Vanguard, we're always looking for better ways to communicate and to help you make sound investment decisions. Thank you for entrusting your assets to us.

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Glossary

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.

See the Glossary for definitions of investment terms used in this report.

About the cover: No matter what language you speak, Vanguard has one consistent message and set of principles. Our primary *focus* is on you, our clients. We conduct our business with *integrity* as a faithful *steward* of your assets. This message is shown translated into seven languages, reflecting our expanding global presence.

Your Fund's Performance at a Glance

- Vanguard Total Stock Market Index Fund returned almost 9% for the six months ended June 30, 2017. The fund closely tracked its target index, the CRSP US Total Market Index, and exceeded the average return of its multicapitalization core fund peers.
- The fund offers investors exposure to every segment, size, and style of the U.S. equity market.
- Large-cap stocks outperformed their small- and mid-cap counterparts. Growth stocks outpaced value, reversing a trend from 2016.
- Eight of the fund's ten market sectors recorded positive returns, with technology, health care, and financials contributing most to the overall return.
- The two sectors posting negative returns were oil and gas and telecommunications.

Total Returns: Six Months Ended June 30, 2017

8.94%
8.94%
8.96
8.99
8.99
9.00
9.01
9.01
9.00
8.35

Multi-Cap Core Funds Average: Derived from data provided by Lipper, a Thomson Reuters Company.

Admiral Shares carry lower expenses and are available to investors who meet certain account-balance requirements. Institutional Shares, Institutional Plus Shares, and Institutional Select Shares are available to certain institutional investors who meet specific administrative, service, and account-size criteria. The Vanguard ETF® Shares shown are traded on the NYSE Arca exchange and are available only through brokers. The table provides ETF returns based on both the NYSE Arca market price and the net asset value for a share. U.S. Pat. Nos. 6,879,964; 7,337,138; 7,720,749; 7,925,573; 8,090,646; and 8,417,623.

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.

Expense Ratios

Your Fund Compared With Its Peer Group

	Investor Shares	ETF Shares	Admiral Shares		Institutional Plus Shares	Institutional Select Shares	Peer Group Average
Total Stock Market Index Fund	0.15%	0.04%	0.04%	0.035%	0.02%	0.01%	1.12%

The fund expense ratios shown are from the prospectus dated April 27, 2017, and represent estimated costs for the current fiscal year. For the six months ended June 30, 2017, the fund's annualized expense ratios were 0.14% for Investor Shares, 0.04% for ETF Shares, 0.04% for Admiral Shares, 0.035% for Institutional Shares, 0.02% for Institutional Plus Shares, and 0.01% for Institutional Select Shares. The peer-group expense ratio is derived from data provided by Lipper, a Thomson Reuters Company, and captures information through year-end 2016.

Peer group: Multi-Cap Core Funds.

Chairman's Perspective



Bill McNabb
Chairman and Chief Executive Officer

Dear Shareholder,

More than a decade ago, the eminent investor and commentator Howard Marks published a memo to his clients titled simply "Risk." In it, Howard distilled the relationship between investors and risk. "When you boil it all down, it's the investor's job to intelligently bear risk for profit," he wrote.

It's not surprising, then, that everyone from portfolio managers to behavioral economists avidly studies how investors' reactions to risk influence not only individual investment decisions but also the broader financial markets. I'm a big fan of some of the behavioral finance work being done, which includes studies by our own investment strategists and analysts.

A lens on investor behavior

For example, Vanguard's Investment Strategy Group introduced a "risk speedometers" report in January to look at how investors are reacting to market developments. This lens on real-world behavior measures the risk investors are taking in a given period by calculating the difference between net cash flows into higher-risk assets, such as stocks, and net cash flows into lower-risk assets, such as Treasuries. The measures are then compared with long-term averages.

In the spring, the risk speedometer spiked. The spike was fueled by investors' decisions to direct more of their equity dollars to international investments in developed and emerging markets, and their bond dollars to riskier credit categories.

A spiking speedometer seems a fitting analogy for what can happen. I consider myself a responsible driver. Still, when the highway is clear and the weather is nice, I might glance down at the speedometer and find that my right foot has gotten a little heavy.

The same phenomenon is possible with our investment portfolios. Just as our attention can drift from our speed—and the risk level on the road—we can neglect the risk level of our portfolio's asset allocation. Experience teaches

that investors are especially prone to lose sight of risk when markets have been buoyant.

How I manage risk in my own portfolio

Rebalancing—periodically adjusting your asset allocation so it stays in line with your goals and risk tolerance—is one of the best ways I know of to help manage risk. Without rebalancing, your portfolio may end up potentially riskier than you intended and no longer aligned with your goals.

I have a ritual I perform every June and again each December, between Christmas and New Year's, as I prepare for a series of annual meetings with the Vanguard crew. I'll set aside some time, review my

Market Barometer

Total Returns Periods Ended June 30, 2017 Five Years Six Months One Year (Annualized) Stocks 18 03% Russell 1000 Index (Large-caps) 9 27% 14.67% Russell 2000 Index (Small-caps) 4 99 24 60 13 70 Russell 3000 Index (Broad U.S. market) 8 93 18 51 14 58 FTSE All-World ex US Index (International) 13 95 20.53 7 68 **Bonds** Bloomberg Barclays U.S. Aggregate Bond Index (Broad taxable market) 2.27% -0.31% 2.21% Bloomberg Barclays Municipal Bond Index 3.57 -0 49 (Broad tax-exempt market) 3 26 0.30 0.46 0.13 Citigroup Three-Month U.S. Treasury Bill Index CPI Consumer Price Index 1.46% 1.63% 1.31%

investment portfolio, and, if necessary, rebalance back to my target asset allocation

My own portfolio is a mix of equity and fixed income funds, and I invest in both actively managed funds and index funds. Most years, I'll make a minor adjustment to get back to the appropriate asset allocation for my own longer-term goals and risk tolerance. It's not all that complicated, although my portfolio is a little more complex than some because I own more funds than we'd typically suggest. As chairman of Vanguard's funds, I feel I should own a significant number of them

Consider your options

You should consider rebalancing if your target allocation is off by 5 percentage points or more. Admittedly, this is often easier said than done. When an investment has performed exceptionally well, people have a hard time trimming it. They can be led astray by that old (and none-too-helpful) investing saw: Let your winners run.

Fortunately, in recent years we've seen all sorts of investors take steps to rebalance. Many of the endowments, foundations, and traditional pension plans that Vanguard serves have good processes built into their investment guidelines to make sure rebalancing takes place on a regular basis. And among investors in defined contribution retirement plans, more and more are using target-date funds, where rebalancing happens automatically.

If you choose to rebalance on your own, use your target asset allocation as your guidepost. Don't be afraid to buy into bad news. In a sense, don't worry about the noise of the marketplace. If you work with an advisor, make sure he or she understands the importance you place on your rebalancing ritual.

And remember, the goal of rebalancing is to manage risk, not to avoid it altogether. Risk is inherent in investing—we just want to bear that risk intelligently.

In that insightful memo on risk, Howard Marks included a saying often attributed to Will Rogers: "You've got to go out on a limb sometimes because that's where the fruit is "

Tim Buckley chosen as Vanguard's next CEO

In closing, I'll note senior leadership changes that we announced in July. Our board of directors has elected Vanguard Chief Investment Officer Tim Buckley as president and director of Vanguard. Under the planned transition, Tim will succeed me as Vanguard's chief executive officer on January 1, 2018.

I'm delighted with our board's selection of Tim. We first met in 1991 when Tim was interviewing for a job at Vanguard. In the decades since, we've worked closely together, and he's always impressed me as a man of tremendous character and an outstanding leader with a passion for serving our clients. During the transition

period, I will work closely with Tim in managing the firm and overseeing its operations.

Replacing Tim as chief investment officer is Greg Davis, who had been global head of Vanguard Fixed Income Group. And succeeding Greg as our fixed income leader is John Hollyer, who most recently served as our global head of investment risk management. I know Greg and John will both do a superb job in their new roles.

As with past successions, I will remain as chairman for a period of time determined by the board. On a personal note, it has been an honor and a privilege to lead Vanguard. Having spent more than half

my life at Vanguard, I have come to know many fabulous crew members who are incredibly dedicated to Vanguard's mission. Please be assured that Tim and the rest of the team will serve you and our other clients extremely well as Vanguard prepares for its next chapter.

As always, thank you for investing with Vanguard.

Sincerely,

F. William McNabb III Chairman and Chief Executive Officer July 14, 2017

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Vanguard fund shareholders encouraged to vote in proxy campaign

This summer you will be asked to vote on the election of trustees for all U.S.-domiciled Vanguard funds. Shareholders will also be asked to vote on several fund policy proposals that we believe are in the best interests of all shareholders.

Vanguard filed a preliminary proxy statement on July 13, 2017, with the U.S. Securities and Exchange Commission (SEC). Following the SEC's review, we expect to provide the proxy materials to Vanguard fund shareholders beginning in late August 2017. That's when you can begin to vote online, by phone, or by mail.

A shareholder meeting is scheduled to be held in Scottsdale, Arizona, on November 15, 2017, when voting will conclude. We encourage you to vote promptly. Please visit vanguard.com for updates.

Total Stock Market Index Fund

Fund Profile

As of June 30, 2017

Share-Class Characteristics

	Investor Shares	ETF Shares	Admiral Shares		Institutional Plus Shares	Institutional Select Shares
Ticker Symbol	VTSMX	VTI	VTSAX	VITSX	VSMPX	VSTSX
Expense Ratio ¹	0.15%	0.04%	0.04%	0.035%	0.02%	0.01%
30-Day SEC Yield	1.78%	1.86%	1.86%	1.88%	1.88%	1.89%

Portfolio Characteristics

	Fund	CRSP US Total Market Index
Number of Stocks	3,606	3,598
Median Market Cap	\$59.8B	\$59.8B
Price/Earnings Ratio	21.2x	21.2x
Price/Book Ratio	2.9x	2.9x
Return on Equity	16.1%	16.0%
Earnings Growth Rate	10.0%	10.0%
Dividend Yield	1.9%	1.9%
Foreign Holdings	0.0%	0.0%
Turnover Rate (Annualized)	4%	
Short-Term Reserves	0.1%	

Sector Diversification (% of equity exposure)

	Fund	CRSP US Total Market Index
Basic Materials	2.5%	2.6%
Consumer Goods	9.7	9.7
Consumer Services	13.0	13.0
Financials	20.5	20.5
Health Care	13.1	13.1
Industrials	13.0	13.0
Oil & Gas	5.6	5.6
Technology	17.4	17.4
Telecommunications	2.0	1.9
Utilities	3.2	3.2

Volatility Measures

	CRSP
	US Total
	Market
	Index
R-Squared	1.00
Beta	1.00

These measures show the degree and timing of the fund's fluctuations compared with the index over 36 months.

Ten Largest Holdings (% of total net assets)

Apple Inc.	Computer Hardware	2.7%
Alphabet Inc.	Internet	2.2
Microsoft Corp.	Software	2.1
Amazon.com Inc.	Broadline Retailers	1.6
Facebook Inc.	Internet	1.4
Johnson & Johnson	Pharmaceuticals	1.4
Exxon Mobil Corp.	Integrated Oil & Gas	1.4
Berkshire Hathaway Inc.	Reinsurance	1.3
JPMorgan Chase & Co.	Banks	1.3
Wells Fargo & Co.	Banks	1.0
Top Ten		16.4%

The holdings listed exclude any temporary cash investments and equity index products.

Investment Focus

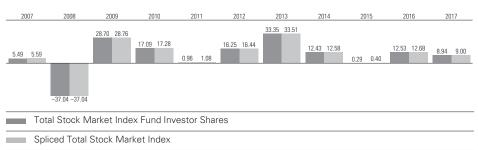
Style		Value	Blend	Growth
Market Cap	Large			
	Medium			
	Small			

¹ The expense ratios shown are from the prospectus dated April 27, 2017, and represent estimated costs for the current fiscal year. For the six months ended June 30, 2017, the annualized expense ratios were 0.14% for Investor Shares, 0.04% for ETF Shares, 0.04% for Admiral Shares, 0.035% for Institutional Shares, 0.02% for Institutional Plus Shares, and 0.01% for Institutional Select Shares.

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.

Fiscal-Year Total Returns (%): December 31, 2006, Through June 30, 2017



For a benchmark description, see the Glossary.

Note: For 2017, performance data reflect the six months ended June 30, 2017.

Average Annual Total Returns: Periods Ended June 30, 2017

Inception Date	One Year	Five Years	Ten Years
4/27/1992	18.35%	14.42%	7.26%
5/24/2001			
	18.49	14.55	7.39
	18.49	14.55	7.38
11/13/2000	18.47	14.54	7.37
7/7/1997	18.50	14.55	7.38
4/28/2015	18.51	_	8.26 ¹
6/27/2016	18.51	_	24.36 ¹
	Date 4/27/1992 5/24/2001 11/13/2000 7/7/1997 4/28/2015	Date Year 4/27/1992 18.35% 5/24/2001 18.49 11/13/2000 18.47 7/7/1997 18.50 4/28/2015 18.51	Date Year Years 4/27/1992 18.35% 14.42% 5/24/2001 18.49 14.55 18.49 14.55 11/13/2000 18.47 14.54 7/7/1997 18.50 14.55 4/28/2015 18.51 —

¹ Return since inception.

Financial Statements (unaudited)

Statement of Net Assets—Investments Summary

As of June 30, 2017

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. Forms N-Q may also be reviewed and copied at the SEC's Public Reference Room (see the back cover of this report for further information).

		Market	Percentage
	0.1	Value*	of Net
	Shares	(\$000)	Assets
Common Stocks			
Basic Materials †		14,799,532	2.5%
Consumer Goods			
Procter & Gamble Co.	58,939,340	5,136,563	0.9%
Philip Morris International Inc.	35,780,975	4,202,475	0.7%
Coca-Cola Co.	88,612,244	3,974,259	0.7%
PepsiCo Inc.	32,956,942	3,806,197	0.6%
Altria Group Inc.	44,516,118	3,315,115	0.6%
Consumer Goods—Other †		35,398,244	6.1%
		55,832,853	9.6%
Consumer Services			
* Amazon.com Inc.	9,355,374	9,056,002	1.6%
Comcast Corp. Class A	108,903,675	4,238,531	0.7%
Home Depot Inc.	27,528,391	4,222,855	0.7%
Walt Disney Co.	34,173,760	3,630,962	0.6%
McDonald's Corp.	18,761,824	2,873,561	0.5%
Wal-Mart Stores Inc.	34,917,465	2,642,554	0.5%
* Priceline Group Inc.	1,129,489	2,112,732	0.4%
Consumer Services—Other †		46,557,697	8.0%
		75,334,894	13.0%
Financials			
JPMorgan Chase & Co.	81,849,498	7,481,044	1.3%
* Berkshire Hathaway Inc. Class B	43,189,943	7,315,081	1.3%
Wells Fargo & Co.	103,615,142	5,741,315	1.0%
Bank of America Corp.	229,168,479	5,559,627	1.0%
Citigroup Inc.	63,394,487	4,239,823	0.7%

		Market Value*	Percentage of Net
	Shares	(\$000)	Assets
Visa Inc. Class A	42,493,554	3,985,045	0.7%
Mastercard Inc. Class A	21,900,088	2,659,766	0.5%
* Berkshire Hathaway Inc. Class A	981	249,861	0.0%
Financials—Other †		81,061,399	13.9%
		118,292,961	20.4%
Health Care			
Johnson & Johnson	62,059,387	8,209,836	1.4%
Pfizer Inc.	137,428,989	4,616,240	0.8%
UnitedHealth Group Inc.	22,193,256	4,115,074	0.7%
Merck & Co. Inc.	62,996,595	4,037,452	0.7%
Amgen Inc. Medtronic plc	16,927,358	2,915,399	0.5%
AbbVie Inc.	31,568,346 36,634,667	2,801,691 2,656,380	0.5% 0.4%
* Celgene Corp.	17,968,099	2,333,517	0.4%
Gilead Sciences Inc.	30,072,798	2,128,553	0.4%
Bristol-Myers Squibb Co.	37,936,672	2,113,831	0.4%
Health Care—Other †	07,000,072	40,074,832	6.9%
		76,002,805	13.1%
Industrials		,,	
General Electric Co.	200,001,087	5,402,029	0.9%
3M Co.	13,773,479	2,867,501	0.5%
Boeing Co.	13,214,972	2,613,261	0.5%
Honeywell International Inc.	17,574,727	2,342,535	0.4%
United Technologies Corp.	16,623,150	2,029,853	0.4%
Union Pacific Corp.	18,602,489	2,025,997	0.3%
Industrials—Other †		58,027,686	10.0%
		75,308,862	13.0%
Oil & Gas	07.000.070		4.00/
Exxon Mobil Corp.	97,608,070	7,879,900	1.3%
Chevron Corp.	43,636,886	4,552,636	0.8%
Schlumberger Ltd. Oil & Gas—Other †	32,006,897	2,107,334	0.4%
Oil & Gas—Other 1		17,680,978	3.0%
		32,220,848	5.5%
¹Other †		14,855	0.0%
Technology			
Apple Inc.	108,093,912	15,567,685	2.7%
Microsoft Corp.	177,774,267	12,253,980	2.1%
* Facebook Inc. Class A	54,439,512	8,219,278	1.4%
* Alphabet Inc. Class A	6,900,772	6,415,510	1.1%
* Alphabet Inc. Class C	6,740,405	6,125,208	1.1%
Intel Corp.	108,442,405	3,658,847	0.6%
Cisco Systems Inc.	115,073,238	3,601,792	0.6%
Oracle Corp.	70,998,449	3,559,862	0.6%
International Business Machines Corp.	20,536,688	3,159,159	0.6%
Broadcom Ltd.	9,246,345	2,154,861	0.4%
Technology—Other †		35,658,805	6.1%
		100,374,987	17.3%

Telecommunications				Market Value*	Percentage of Net
ATE Inc. 141,546,385 5,340,545 0.9% Verizon Communications Inc. 93,920,728 4,194,500 0.8% Telecommunications—Other † 1,789,383 0.3% 11,324,428 2.0% Utilities † 18,285,866 3.1% Temporary Cash Investments Money Market Fund 1.181% 63,822,793 6,383,556 1.1% **J. S. Government and Agency Obligations † 165,198 0.0% **Total Investments (Cost \$390,123,396) 584,341,645 100.6% **Other Assets and Liabilities 4mount (8000) 10.6% **Other Assets and Liabilities 37,853 1.1% **Other Assets of Nacrued Income 37,853 1.13 **Receivables for Investment Securities Sold 11,393 1.13 **Receivables for Accrued Income 612,538 1.13 **Receivables for Investment Securities Sold 11,393 1.13 **Receivables for Investment Securities Sold 11,393 1.15 **Receivables for Investment Securities Sold 11,059,171 1.15			Shares		Assets
Verizon Communications Inc. 93,920,728 4,194,500 0.8% Telecommunications—Other 1 21,789,383 0.3% Till 1,789,383 0.3% 1,789,383 0.3% Total Common Stocks (Cost \$383,575,329) 577,792,891 99,5% Coupon Temporary Cash Investments Money Market Fund 1.181% 63,822,793 6,383,556 1.1% 9U.S. Government and Agency Obligations 1 165,198 0.0% Total Investments (Cost \$6,548,067) 584,341,645 10.0% **Otal Investments (Cost \$390,123,396) 584,341,645 10.0% Other Assets and Liabilities Other Assets and Liabilities Other Assets 37,853 11,393 Receivables for Investment Securities Sold 11,393 11,393 Receivables for Investment Securities Sold 11,393 1,393 Receivables for Capital Shares Issued 1,015,990 0.2% Liabilities 1,015,990 0.2% Liabilities 1,025,931 1,015,991 Payables for Capital	Telecommunications				
Telecommunications—Other 1					
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Total Common Stocks (Cost \$383,575,329) 577,792,891 99.5%				11,324,428	2.0%
Temporary Cash Investments Money Market Fund 3.4 Vanguard Market Liquidity Fund 1.181% 63,822,793 6,383,556 1.1% 5U.S. Government and Agency Obligations † 165,198 0.0% Total Temporary Cash Investments (Cost \$6,548,067) 6,548,754 1.1% 67 total Investments (Cost \$390,123,396) 584,341,645 100.6% Amount (\$000)	Utilities †			18,285,866	3.1%
Temporary Cash Investments	Total Common Stocks (Cost \$383,575,329)			577,792,891	99.5%2
Temporary Cash Investments		Coupon			
3.4 Vanguard Market Liquidity Fund 1.181% 63,822,793 6,383,556 1.1% 5U.S. Government and Agency Obligations † 165,198 0.0% Total Temporary Cash Investments (Cost \$6,548,067) 6,548,754 1.1% **Total Investments (Cost \$390,123,396) 584,341,645 100.6% Amount (\$000) Other Assets and Liabilities Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets ^{4,7} 19,588 Total Other Assets 1,015,990 0.2% Liabilities (1,059,171) Payables for Investment Securities Purchased (1,059,171) (1,059,171) Collateral for Securities on Loan (2,869,824) (2,869,824) Payables for Capital Shares Redeemed (192,293) (207,863) (207,863) Other Liabilities (354) (354) (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At Ju	Temporary Cash Investments				
5U.S. Government and Agency Obligations † 165,198 0.0% Total Temporary Cash Investments (Cost \$6,548,067) 6,548,754 1.1% **Total Investments (Cost \$390,123,396) 584,341,645 100.6% Other Assets and Liabilities Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 19,588 Total Other Assets 10,015,990 0.2% Liabilities 19,588 10,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) 0.2% Collateral for Securities on Loan (2,869,824) 29,293 Payables for Vanguard (207,863) 0.26 Other Liabilities (354) 1.015,990 Total Liabilities (354) 4.329,505 (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 38,361,506 Overdistributed Net	Money Market Fund				
Total Temporary Cash Investments (Cost \$6,548,067) 6,548,754 1.1% Total Investments (Cost \$390,123,396) 584,341,645 100.6% Amount (\$000) Cother Assets and Liabilities Cother Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Cother Assets 1,015,990 0.2% Liabilities 1,015,990 0.2% Liabilities 2,293 Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Cother Liabilities (354) Total Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202 Cother Capital Shares Redeemed 194,218,249 Cother Capital Shares Redeemed 194,218,2	3,4 Vanguard Market Liquidity Fund	1.181%	63,822,793	6,383,556	1.1%
Total Investments (Cost \$390,123,396) 584,341,645 100.6% Amount (\$000) Other Assets and Liabilities Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 1,015,990 0.2% Liabilities 2 Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% Amount (\$000) Paid-in Capital 388,361,568 Amount (\$000)	⁵ U.S. Government and Agency Obligations †			165,198	0.0%
Amount (\$000)	Total Temporary Cash Investments (Cost \$6,548,067))		6,548,754	1.1%2
(\$000) Other Assets and Liabilities Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 1,015,990 0.2% Liabilities Total Other Assets 1,015,990 0.2% Liabilities Capital Shares Redement Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 194,218,249 Futures Contract	⁶ Total Investments (Cost \$390,123,396)			584,341,645	100.6%
(\$000) Other Assets and Liabilities Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 1,015,990 0.2% Liabilities Total Other Assets 1,015,990 0.2% Liabilities Capital Shares Redement Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 194,218,249 Futures Contract					
Other Assets and Liabilities Other Assets 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 4.7 19,588 Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202					
Other Assets Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets ^{4,7} 19,588 Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) (Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	Other Assets and Liabilities			(\$000)	
Investment in Vanguard 37,853 Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets 4.7 19,588 Total Other Assets 1,015,990 0.2%					
Receivables for Investment Securities Sold 11,393 Receivables for Accrued Income 612,538 Receivables for Capital Shares Issued 334,618 Other Assets ^{4,7} 19,588 Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) [Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202				37.853	
Receivables for Capital Shares Issued 334,618 19,588 Other Assets.7 19,588 Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables to Vanguard (192,293) Payables to Vanguard (207,863) Other Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	ě				
Other Assets 4.7 19,588 Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Other Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% Manount (\$000) M	Receivables for Accrued Income			612,538	
Total Other Assets 1,015,990 0.2% Liabilities Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Other Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	·				
Liabilities (1,059,171) Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202				19,588	
Payables for Investment Securities Purchased (1,059,171) Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	Total Other Assets			1,015,990	0.2%
Collateral for Securities on Loan (2,869,824) Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202					
Payables for Capital Shares Redeemed (192,293) Payables to Vanguard (207,863) Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	,				
Payables to Vanguard Other Liabilities (207,863) (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) Investment Securities 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202					
Other Liabilities (354) Total Liabilities (4,329,505) (0.8% Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292) Accumulated Net Realized Losses (1,264,998) Unrealized Appreciation (Depreciation) 194,218,249 Futures Contracts (11,537) Swap Contracts 3,202	· ·				
Net Assets 581,028,130 100.0% At June 30, 2017, net assets consisted of: Amount (\$000 Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202	,				
At June 30, 2017, net assets consisted of: Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202	Total Liabilities			(4,329,505)	(0.8%)
Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202	Net Assets			581,028,130	100.0%
Amount (\$000) Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202					
Paid-in Capital 388,361,506	At June 30, 2017, net assets consisted of:				
Paid-in Capital 388,361,506 Overdistributed Net Investment Income (278,292 Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202					Amount (\$000)
Accumulated Net Realized Losses (1,264,998 Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202	Paid-in Capital				
Unrealized Appreciation (Depreciation) 194,218,249 Investment Securities 191,218,249 Futures Contracts (11,537 Swap Contracts 3,202					(278,292)
Investment Securities 194,218,249 Futures Contracts (11,537 Swap Contracts 3,202					(1,264,998)
Futures Contracts (11,537 Swap Contracts 3,202					4040400
Swap Contracts 3,202					
·					
	Net Assets				581,028,130

	Amount (\$000)
Investor Shares—Net Assets	
Applicable to 1,917,637,051 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	116,116,153
Net Asset Value Per Share—Investor Shares	\$60.55
ETF Shares—Net Assets	
Applicable to 641,883,319 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	79,868,757
Net Asset Value Per Share—ETF Shares	\$124.43
Admiral Shares—Net Assets	
Applicable to 2,807,842,015 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	170,071,182
Net Asset Value Per Share—Admiral Shares	\$60.57
Institutional Shares—Net Assets	
Applicable to 1,575,739,893 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	95,459,460
Net Asset Value Per Share—Institutional Shares	\$60.58
Institutional Plus Shares—Net Assets	
Applicable to 950,011,818 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	107,928,320
Net Asset Value Per Share—Institutional Plus Shares	\$113.61
Institutional Select Shares—Net Assets	
Applicable to 97,178,300 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	11,584,258
Net Asset Value Per Share—Institutional Select Shares	\$119.21

- · 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.
- 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 0.6%, 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 \$2,869,824,000 of collateral received for securities on loan, of which \$4,245,000 is held in cash.
- 5 Securities with a value of \$115,846,000 have been segregated as initial margin for open futures contracts.
- 6 The total value of securities on loan is \$2,692,354,000.
- 7 Cash with a value of \$520,000 has been segregated as collateral for open over-the-counter swap contracts.
 See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Operations

	Six Months Ended June 30, 2017
	(\$000)
Investment Income	
Income	
Dividends	4,966,938
Interest ¹	14,430
Securities Lending—Net	43,639
Total Income	5,025,007
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	9,531
Management and Administrative—Investor Shares	65,930
Management and Administrative—ETF Shares	12,341
Management and Administrative—Admiral Shares	26,433
Management and Administrative—Institutional Shares	11,581
Management and Administrative—Institutional Plus Shares	6,919
Management and Administrative—Institutional Select Shares	256
Marketing and Distribution—Investor Shares	7,988
Marketing and Distribution—ETF Shares	1,735
Marketing and Distribution—Admiral Shares	4,965
Marketing and Distribution—Institutional Shares	1,229
Marketing and Distribution—Institutional Plus Shares	671
Marketing and Distribution—Institutional Select Shares	1
Custodian Fees	2,476
Shareholders' Reports—Investor Shares	1,671
Shareholders' Reports—ETF Shares	1,157
Shareholders' Reports—Admiral Shares	1,229
Shareholders' Reports—Institutional Shares	542
Shareholders' Reports—Institutional Plus Shares	6
Shareholders' Reports—Institutional Select Shares	_
Trustees' Fees and Expenses	170
Total Expenses	156,831
Net Investment Income	4,868,176
Realized Net Gain (Loss)	
Investment Securities Sold ¹	1,810,294
Futures Contracts	206,831
Swap Contracts	(5,636)
Realized Net Gain (Loss)	2,011,489
Change in Unrealized Appreciation (Depreciation)	
Investment Securities	39,398,734
Futures Contracts	8,621
Swap Contracts	3,701
Change in Unrealized Appreciation (Depreciation)	39,411,056
Net Increase (Decrease) in Net Assets Resulting from Operations	46,290,721

¹ Interest income and realized net gain (loss) from an affiliated company of the fund were \$13,831,000 and \$166,000, respectively. See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Changes in Net Assets

	Six Months Ended June 30, 2017	Year Ended December 31, 2016
	(\$000)	(\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	4,868,176	9,073,422
Realized Net Gain (Loss)	2,011,489	4,014,156
Change in Unrealized Appreciation (Depreciation)	39,411,056	42,114,142
Net Increase (Decrease) in Net Assets Resulting from Operations	46,290,721	55,201,720
Distributions		
Net Investment Income		
Investor Shares	(970,338)	(1,930,782)
ETF Shares	(708,189)	(1,282,510)
Admiral Shares	(1,506,839)	(2,820,690)
Institutional Shares	(837,294)	(1,428,815)
Institutional Plus Shares	(937,389)	(1,567,690)
Institutional Select Shares	(94,894)	(66,263)
Realized Capital Gain		
Investor Shares	_	_
ETF Shares	_	_
Admiral Shares	_	_
Institutional Shares	_	_
Institutional Plus Shares	_	_
Institutional Select Shares	_	_
Total Distributions	(5,054,943)	(9,096,750)
Capital Share Transactions		
Investor Shares	3,697,436	(2,633,123)
ETF Shares	4,255,317	6,156,065
Admiral Shares	6,156,713	11,172,716
Institutional Shares	9,334,807	14,683,001
Institutional Plus Shares	15,567,800	13,965,811
Institutional Select Shares	2,328,347	8,351,435
Net Increase (Decrease) from Capital Share Transactions	41,340,420	51,695,905
Total Increase (Decrease)	82,576,198	97,800,875
Net Assets		
Beginning of Period	498,451,932	400,651,057
End of Period ¹	581,028,130	498,451,932

¹ Net Assets—End of Period includes undistributed (overdistributed) net investment income of (\$278,292,000) and (\$85,889,000).

Investor Shares

S	Six Months Ended					
For a Share Outstanding	June 30,			Year	Ended Dece	mber 31,
Throughout Each Period	2017	2016	2015	2014	2013	2012
Net Asset Value, Beginning of Period	\$56.06	\$50.78	\$51.58	\$46.67	\$35.64	\$31.29
Investment Operations						
Net Investment Income	.497	1.022	.954	.854	.757	.720
Net Realized and Unrealized Gain (Loss) on Investments	4.506	5.282	(.807)	4.907	11.038	4.350
Total from Investment Operations	5.003	6.304	.147	5.761	11.795	5.070
Distributions						
Dividends from Net Investment Income	(.513	(1.024)	(.947)	(.851	(.765)	(.720)
Distributions from Realized Capital Gains	-	_	_	_	_	_
Total Distributions	(.513	(1.024)	(.947)	(.851	(.765)	(.720)
Net Asset Value, End of Period	\$60.55	\$56.06	\$50.78	\$51.58	\$46.67	\$35.64
Total Return ¹	8.94%	12.53%	0.29%	12.43%	33.35%	16.25%
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$116,116	\$103,932	\$96,323	\$117,966	\$105,008	\$78,936
Ratio of Total Expenses to Average Net Assets	0.14%	0.15%	0.16%	0.17%	0.17%	0.17%
Ratio of Net Investment Income to Average Net Assets	1.75%	1.98%	1.85%	1.77%	1.84%	2.11%
Portfolio Turnover Rate ²	4%	4%	3%	3%	4%	3%

¹ 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.

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.

ETF Shares

S	ix Months Ended					
For a Share Outstanding	June 30.			Year E	Inded Dece	mber 31,
Throughout Each Period	2017	2016	2015	2014	2013	2012
Net Asset Value, Beginning of Period	\$115.21	\$104.34	\$106.00	\$95.91	\$73.24	\$64.29
Investment Operations						
Net Investment Income	1.077	2.214	2.082	1.874	1.657	1.564
Net Realized and Unrealized Gain (Loss) on Investments	9.260	10.871	(1.675)	10.085	22.686	8.949
Total from Investment Operations	10.337	13.085	.407	11.959	24.343	10.513
Distributions						
Dividends from Net Investment Income	(1.117)	(2.215)	(2.067)	(1.869)	(1.673)	(1.563)
Distributions from Realized Capital Gains	_	_	_	_	_	_
Total Distributions	(1.117)	(2.215)	(2.067)	(1.869)	(1.673)	(1.563)
Net Asset Value, End of Period	\$124.43	\$115.21	\$104.34	\$106.00	\$95.91	\$73.24
Total Return	8.99%	12.68%	0.40%	12.56%	33.51%	16.41%
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$79,869	\$69,889	\$57,434	\$50,886	\$39,165	\$24,270
Ratio of Total Expenses to Average Net Assets	0.04%	0.04%	0.05%	0.05%	0.05%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.85%	2.09%	1.96%	1.89%	1.96%	2.23%
Portfolio Turnover Rate ¹	4%	4%	3%	3%	4%	3%

¹ 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

S	ix Months Ended					
For a Share Outstanding	June 30,			Year I	Ended Dece	mber 31,
Throughout Each Period	2017	2016	2015	2014	2013	2012
Net Asset Value, Beginning of Period	\$56.08	\$50.79	\$51.60	\$46.69	\$35.65	\$31.30
Investment Operations						
Net Investment Income	.524	1.077	1.013	.912	.807	.761
Net Realized and Unrealized Gain (Loss) on Investments	4.510	5.291	(.818)	4.908	11.047	4.350
Total from Investment Operations	5.034	6.368	.195	5.820	11.854	5.111
Distributions						
Dividends from Net Investment Income	(.544)	(1.078) (1.005)	(.910)	(.814)	(.761)
Distributions from Realized Capital Gains	_	_	_	_	_	_
Total Distributions	(.544)	(1.078) (1.005)	(.910)	(.814)	(.761)
Net Asset Value, End of Period	\$60.57	\$56.08	\$50.79	\$51.60	\$46.69	\$35.65
Total Return ¹	8.99%	12.66%	0.39%	12.56%	33.52%	16.38%
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$170,071	\$151,612	\$126,363	\$117,476	\$86,541	\$59,771
Ratio of Total Expenses to Average Net Assets	0.04%	0.04%	0.05%	0.05%	0.05%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.85%	2.09%	1.96%	1.89%	1.96%	2.23%
Portfolio Turnover Rate ²	4%	4%	3%	3%	4%	3%

¹ 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.

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 Shares

S	ix Months Ended					. 01
For a Share Outstanding	June 30,				Ended Dece	
Throughout Each Period	2017	2016	2015	2014	2013	2012
Net Asset Value, Beginning of Period	\$56.09	\$50.80	\$51.60	\$46.69	\$35.66	\$31.30
Investment Operations						
Net Investment Income	.527	1.082	1.017	.915	.808	.763
Net Realized and Unrealized Gain (Loss) on Investments	4.509	5.291	(.808.)	4.908	11.038	4.359
Total from Investment Operations	5.036	6.373	.209	5.823	11.846	5.122
Distributions						
Dividends from Net Investment Income	(.546)	(1.083)	(1.009)	(.913)	(.816)	(.762)
Distributions from Realized Capital Gains	_	_	_	_	_	_
Total Distributions	(.546)	(1.083)	(1.009)	(.913)	(.816)	(.762)
Net Asset Value, End of Period	\$60.58	\$56.09	\$50.80	\$51.60	\$46.69	\$35.66
Total Return	9.00%	12.67%	0.42%	12.56%	33.49%	16.42%
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$95,459	\$79,443	\$57,438	\$96,674	\$65,738	\$39,367
Ratio of Total Expenses to Average Net Assets	0.035%	0.03%	0.04%	0.04%	0.04%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.86%	2.10%	1.97%	1.90%	1.97%	2.24%
Portfolio Turnover Rate ¹	4%	4%	3%	3%	4%	3%

The expense ratio, net investment income ratio, and turnover rate for the current period have been annualized.

¹ 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

Six Months Ended June 30,	Year Ended	April 28, 2015 ¹ to
	Ended	20151 to
June 30.		
,	Dec. 31,	Dec. 31,
2017	2016	2015
\$105.18	\$95.26	\$100.00
.996	2.042	1.335
8.466	9.924	(4.631)
9.462	11.966	(3.296)
(1.032)	(2.046)	(1.444)
_	_	_
(1.032)	(2.046)	(1.444)
\$113.61	\$105.18	\$95.26
9.01%	12.69%	-3.28%
\$107,928	\$85,031	\$63,093
0.02%	0.02%	0.02%2
1.87%	2.11%	1.99%2
4%	4%	3%4
	\$105.18 .996 8.466 9.462 (1.032) — (1.032) \$113.61 9.01% \$107,928 0.02% 1.87%	\$105.18 \$95.26 .996

¹ Inception.

² Annualized.

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.

⁴ Reflects the fund's portfolio turnover for the fiscal year ended December 31, 2015.

Institutional Select Shares

	Six Months	June 27,
	Ended June 30.	2016 ¹ to Dec. 31,
For a Share Outstanding Throughout Each Period	2017	2016
Net Asset Value, Beginning of Period	\$110.37	\$97.70
Investment Operations		
Net Investment Income	1.052	1.181
Net Realized and Unrealized Gain (Loss) on Investments	8.877	12.718
Total from Investment Operations	9.929	13.899
Distributions		_
Dividends from Net Investment Income	(1.089)	(1.229)
Distributions from Realized Capital Gains	_	_
Total Distributions	(1.089)	(1.229)
Net Asset Value, End of Period	\$119.21	\$110.37
Total Return	9.01%	14.24%
Ratios/Supplemental Data		
Net Assets, End of Period (Millions)	\$11,584	\$8,545
Ratio of Total Expenses to Average Net Assets	0.01%	0.01%2
Ratio of Net Investment Income to Average Net Assets	1.88%	2.15%2
Portfolio Turnover Rate ³	4%	4%4

¹ Inception.

² Annualized.

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.

⁴ 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. Investor Shares are available to any investor who meets the fund's minimum purchase requirements. ETF Shares are listed for trading on NYSE Arca; they can be purchased and sold through a broker. Admiral Shares, Institutional Shares, Institutional Plus Shares, and Institutional Select Shares are designed for investors who meet certain administrative, service, and account-size criteria.

- **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, enhancing returns, 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 fund may seek to enhance returns by using futures contracts instead of the underlying securities when futures are believed to be priced more attractively than the underlying securities. 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.

Futures contracts are valued at their quoted daily settlement prices. The aggregate settlement values 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 six months ended June 30, 2017, 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 aggregate settlement values 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 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 six months ended June 30, 2017, 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, 2013–2016), and for the period ended June 30, 2017, 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.
- 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 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 June 30, 2017, 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) and shareholder reporting. 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.

Upon the request of Vanguard, the fund may invest up to 0.40% of its net assets as capital in Vanguard. At June 30, 2017, the fund had contributed to Vanguard capital in the amount of \$37,853,000, representing 0.01% of the fund's net assets and 15.14% 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).

The following table summarizes the market value of the fund's investments as of June 30, 2017, based on the inputs used to value them:

Investments	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)
Common Stocks	577,778,717	54	14,120
Temporary Cash Investments	6,383,556	165,198	_
Futures Contracts—Assets ¹	1,186	_	_
Futures Contracts—Liabilities ¹	(354)	_	_
Swap Contracts—Assets	_	3,627	_
Swap Contracts—Liabilities	_	(425)	_
Total	584,163,105	168,454	14,120

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

D. At June 30, 2017, the aggregate settlement value of open futures contracts and the related unrealized appreciation (depreciation) were:

				(\$000)
Futures Contracts	Expiration	Number of Long (Short) Contracts	Aggregate Settlement Value Long (Short)	Unrealized Appreciation (Depreciation)
E-mini S&P 500 Index	September 2017	24.727	2,993,080	(10,633)
L-IIIIII 301 300 IIIdex	Jepterriber 2017	24,727	2,333,000	(10,033)
E-mini Russell 2000 Index	September 2017	1,914	135,349	(642)
E-mini S&P Mid-Cap 400 Index	September 2017	240	41,906	(262)
				(11,537)

Unrealized appreciation (depreciation) on open futures contracts is required to be treated as realized gain (loss) for tax purposes.

At June 30, 2017, the fund had the following open total return swap contracts:

Ter Reference Entity	mination Date	Counterparty	Notional Amount (\$000)	Floating Interest Rate Received (Paid)	Unrealized Appreciation (Depreciation) (\$000)
Ambac Financial Group Inc.	7/6/17	GSCM	9,525	(1.612%)	621
Gaming and Leisure Properties Inc.	9/21/17	GSCM	11,301	(1.776%)	(310)
Gaming and Leisure Properties Inc.	9/21/17	GSCM	4,897	(1.774%)	(115)
Gaming and Leisure Properties Inc.	9/21/17	GSCM	1,883	(0.550%)	4
SLM Corp.	8/22/17	GSI	38,583	(1.612%)	3,002
					3,202

GSCM—Goldman Sachs Capital Management.

GSI-Goldman Sachs International.

At June 30, 2017, the counterparty had deposited in segregated accounts securities with a value of \$2,560,000 in connection with amounts due to the fund for open swap contracts.

E. Distributions are determined on a tax basis and may differ from net investment income and realized capital gains for financial reporting purposes. Differences may be permanent or temporary. Permanent differences are reclassified among capital accounts in the financial statements to reflect their tax character. Temporary differences arise when certain items of income, expense, gain, or loss are recognized in different periods for financial statement and tax purposes. These differences will reverse at some time in the future. Differences in classification may also result from the treatment of short-term gains as ordinary income for tax purposes.

During the six months ended June 30, 2017, the fund realized \$2,835,002,000 of net capital gains resulting from in-kind redemptions—in which shareholders exchanged fund shares for securities held by the fund rather than for cash. Because such gains are not taxable to the fund, and are not distributed to shareholders, they have been reclassified from accumulated net realized losses to paid-in capital.

The fund's tax-basis capital gains and losses are determined only at the end of each fiscal year. The fund realized losses of \$463,562,000 during the period from November 1, 2016, through December 31, 2016, which are deferred and will be treated as realized for tax purposes in fiscal 2017. The fund will use these capital losses to offset net taxable capital gains, if any, realized during the year ending December 31, 2017.

At June 30, 2017, the cost of investment securities for tax purposes was \$390,132,731,000. Net unrealized appreciation of investment securities for tax purposes was \$194,208,914,000, consisting of unrealized gains of \$206,073,706,000 on securities that had risen in value since their purchase and \$11,864,792,000 in unrealized losses on securities that had fallen in value since their purchase.

- **F.** During the six months ended June 30, 2017, the fund purchased \$53,812,955,000 of investment securities and sold \$12,977,306,000 of investment securities, other than temporary cash investments. Purchases and sales include \$10,043,403,000 and \$2,020,228,000, respectively, in connection with in-kind purchases and redemptions of the fund's capital shares.
- G. Capital share transactions for each class of shares were:

	Six Months Ended June 30, 2017		Year Ended December 31, 2016	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)
Investor Shares				
Issued	8,029,510	136,064	11,360,219	224,105
Issued in Lieu of Cash Distributions	964,668	16,172	1,919,404	36,018
Redeemed	(5,296,742)	(88,495)	(15,912,746)	(303,219)
Net Increase (Decrease)—Investor Shares	3,697,436	63,741	(2,633,123)	(43,096)
ETF Shares				
Issued	8,264,880	67,843	12,651,306	117,794
Issued in Lieu of Cash Distributions	_	_	_	_
Redeemed	(4,009,563)	(32,600)	(6,495,241)	(61,600)
Net Increase (Decrease)—ETF Shares	4,255,317	35,243	6,156,065	56,194
Admiral Shares				
Issued	14,029,179	238,015	23,021,975	443,481
Issued in Lieu of Cash Distributions	1,293,767	21,687	2,437,517	45,667
Redeemed	(9,166,233)	(155,332)	(14,286,776)	(273,567)
Net Increase (Decrease)—Admiral Shares	6,156,713	104,370	11,172,716	215,581

	Six Months Ended June 30, 2017		Year Ended December 31, 2016	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)
Institutional Shares				
Issued	13,539,880	230,586	23,023,849	445,440
Issued in Lieu of Cash Distributions	775,648	12,995	1,314,828	24,590
Redeemed	(4,980,721)	(84,198)	(9,655,676)	(184,350)
Net Increase (Decrease)—Institutional Shares	9,334,807	159,383	14,683,001	285,680
Institutional Plus Shares				
Issued	18,147,684	165,040	17,424,884	181,141
Issued in Lieu of Cash Distributions	930,234	8,310	1,561,503	15,576
Redeemed	(3,510,118)	(31,732)	(5,020,576)	(50,622)
Net Increase (Decrease)—Institutional Plus Shares	15,567,800	141,618	13,965,811	146,095
Institutional Select Shares ¹				
Issued	2,410,928	20,473	8,412,782	78,011
Issued in Lieu of Cash Distributions	94,893	807	66,262	600
Redeemed	(177,474)	(1,527)	(127,609)	(1,185)
Net Increase (Decrease)—Institutional Select Share	s 2,328,347	19,753	8,351,435	77,426

¹ Inception was June 27, 2016, for Institutional Select Shares.

H. Management has determined that no material events or transactions occurred subsequent to June 30, 2017, that would require recognition or disclosure in these financial statements.

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 June 30, 2017

Total Stock Market Index Fund	Beginning Account Value 12/31/2016	Ending Account Value 6/30/2017	Expenses Paid During Period
Based on Actual Fund Return			
Investor Shares	\$1,000.00	\$1,089.40	\$0.73
ETF Shares	1,000.00	1,089.90	0.21
Admiral Shares	1,000.00	1,089.94	0.21
Institutional Shares	1,000.00	1,089.96	0.18
Institutional Plus Shares	1,000.00	1,090.14	0.10
Institutional Select Shares	1,000.00	1,090.14	0.05
Based on Hypothetical 5% Yearly Return			
Investor Shares	\$1,000.00	\$1,024.10	\$0.70
ETF Shares	1,000.00	1,024.60	0.20
Admiral Shares	1,000.00	1,024.60	0.20
Institutional Shares	1,000.00	1,024.62	0.18
Institutional Plus Shares	1,000.00	1,024.70	0.10
Institutional Select Shares	1,000.00	1,024.70	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, 0.04% for ETF Shares, 0.04% for Admiral Shares, 0.035% 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 (181/365).

Trustees Approve Advisory Arrangement

The board of trustees of Vanguard Total Stock Market Index Fund has renewed the fund's investment advisory arrangement with The Vanguard Group, Inc. (Vanguard), through its Equity Index Group. The board determined that continuing the fund's internalized management structure was in the best interests of the fund and its shareholders.

The board based its decision upon an evaluation of the advisor's investment staff, portfolio management process, and performance. This evaluation included information provided to the board by Vanguard's Portfolio Review Department, which is responsible for fund and advisor oversight and product management. The Portfolio Review Department met regularly with the advisor and made monthly presentations to the board during the fiscal year that directed the board's focus to relevant information and topics.

The board, or an investment committee made up of board members, also received information throughout the year during advisor presentations. For each advisor presentation, the board was provided with letters and reports that included information about, among other things, the advisory firm and the advisor's assessment of the investment environment, portfolio performance, and portfolio characteristics.

In addition, the board received monthly reports, which included a Market and Economic Report, a Fund Dashboard Monthly Summary, and a Fund Performance Report.

Prior to their meeting, the trustees were provided with a memo and materials that summarized the information they received over the course of the year. They also considered the factors discussed below, among others. However, no single factor determined whether the board approved the arrangement. Rather, it was the totality of the circumstances that drove the board's decision.

Nature, extent, and quality of services

The board reviewed the quality of the fund's investment management services over both the short and long term and took into account the organizational depth and stability of the advisor. The board considered that Vanguard has been managing investments for more than three decades. The Equity Index Group adheres to a sound, disciplined investment management process; the team has considerable experience, stability, and depth.

The board concluded that Vanguard's experience, stability, depth, and performance, among other factors, warranted continuation of the advisory arrangement.

Investment performance

The board considered the short- and long-term performance of the fund, including any periods of outperformance or underperformance compared with its target index and peer group. The board concluded that the performance was such that the advisory arrangement should continue. Information about the fund's most recent performance can be found in the Performance Summary section of this report.

Cost

The board concluded that the fund's expense ratio was well below the average expense ratio charged by funds in its peer group and that the fund's advisory expenses were also well below its peer-group average. Information about the fund's expenses appears in the About Your Fund's Expenses section of this report as well as in the Financial Statements section.

The board does not conduct a profitability analysis of Vanguard because of Vanguard's unique "at-cost" structure. Unlike most other mutual fund management companies, Vanguard is owned by the funds it oversees and produces "profits" only in the form of reduced expenses for fund shareholders.

The benefit of economies of scale

The board concluded that the fund's at-cost arrangement with Vanguard ensures that the fund will realize economies of scale as it grows, with the cost to shareholders declining as fund assets increase.

The board will consider whether to renew the advisory arrangement again after a one-year period.

Glossary

30-Day SEC Yield. A fund's 30-day SEC yield is derived using a formula specified by the U.S. Securities and Exchange Commission. Under the formula, data related to the fund's security holdings in the previous 30 days are used to calculate the fund's hypothetical net income for that period, which is then annualized and divided by the fund's estimated average net assets over the calculation period. For the purposes of this calculation, a security's income is based on its current market yield to maturity (for bonds), its actual income (for asset-backed securities), or its projected dividend yield (for stocks). Because the SEC yield represents hypothetical annualized income, it will differ—at times significantly—from the fund's actual experience. As a result, the fund's income distributions may be higher or lower than implied by the SEC yield.

Beta. A measure of the magnitude of a fund's past share-price fluctuations in relation to the ups and downs of a given market index. The index is assigned a beta of 1.00. Compared with a given index, a fund with a beta of 1.20 typically would have seen its share price rise or fall by 12% when the index rose or fell by 10%. For this report, beta is based on returns over the past 36 months for both the fund and the index. Note that a fund's beta should be reviewed in conjunction with its R-squared (see definition). The lower the R-squared, the less correlation there is between the fund and the index, and the less reliable beta is as an indicator of volatility.

Dividend Yield. Dividend income earned by stocks, expressed as a percentage of the aggregate market value (or of net asset value, for a fund). The yield is determined by dividing the amount of the annual dividends by the aggregate value (or net asset value) at the end of the period. For a fund, the dividend yield is based solely on stock holdings and does not include any income produced by other investments.

Earnings Growth Rate. The average annual rate of growth in earnings over the past five years for the stocks now in a fund.

Equity Exposure. A measure that reflects a fund's investments in stocks and stock futures. Any holdings in short-term reserves are excluded.

Expense Ratio. A fund's total annual operating expenses expressed as a percentage of the fund's average net assets. The expense ratio includes management and administrative expenses, but does not include the transaction costs of buying and selling portfolio securities.

Foreign Holdings. The percentage of a fund represented by securities or depositary receipts of companies based outside the United States.

Inception Date. The date on which the assets of a fund (or one of its share classes) are first invested in accordance with the fund's investment objective. For funds with a subscription period, the inception date is the day after that period ends. Investment performance is measured from the inception date.

Median Market Cap. An indicator of the size of companies in which a fund invests; the midpoint of market capitalization (market price x shares outstanding) of a fund's stocks, weighted by the proportion of the fund's assets invested in each stock. Stocks representing half of the fund's assets have market capitalizations above the median, and the rest are below it.

Price/Book Ratio. The share price of a stock divided by its net worth, or book value, per share. For a fund, the weighted average price/book ratio of the stocks it holds.

Price/Earnings Ratio. The ratio of a stock's current price to its per-share earnings over the past year. For a fund, the weighted average P/E of the stocks it holds. P/E is an indicator of market expectations about corporate prospects; the higher the P/E, the greater the expectations for a company's future growth.

R-Squared. A measure of how much of a fund's past returns can be explained by the returns from the market in general, as measured by a given index. If a fund's total returns were precisely synchronized with an index's returns, its R-squared would be 1.00. If the fund's returns bore no relationship to the index's returns, its R-squared would be 0. For this report, R-squared is based on returns over the past 36 months for both the fund and the index.

Return on Equity. The annual average rate of return generated by a company during the past five years for each dollar of shareholder's equity (net income divided by shareholder's equity). For a fund, the weighted average return on equity for the companies whose stocks it holds.

Short-Term Reserves. The percentage of a fund invested in highly liquid, short-term securities that can be readily converted to cash.

Turnover Rate. An indication of the fund's trading activity. Funds with high turnover rates incur higher transaction costs and may be more likely to distribute capital gains (which may be taxable to investors). The turnover rate excludes in-kind transactions, which have minimal impact on costs.

Benchmark Information

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.

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 on an at-cost basis.

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 197 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 Trustee¹

F. William McNabb III

Born 1957. Trustee Since July 2009. Chairman of the Board. Principal Occupation(s) During the Past Five Years and Other Experience: Chairman of the Board of The Vanguard Group, Inc., and of each of the investment companies served by The Vanguard Group, since January 2010; Director of The Vanguard Group since 2008; Chief Executive Officer and President of The Vanguard Group, and of each of the investment companies served by The Vanguard Group, since 2008; Director of Vanguard Marketing Corporation; Managing Director of The Vanguard Group (1995–2008).

Independent Trustees

Emerson U. Fullwood

Born 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); 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 United Way of Rochester, the University of Rochester Medical Center, Monroe Community College Foundation, North Carolina A&T University, and Roberts Wesleyan College; Trustee of the University of Rochester.

Rajiv L. Gupta

Born 1945. Trustee Since December 2001.² Principal Occupation(s) During the Past Five Years and Other Experience: Chairman and Chief Executive Officer (retired 2009) and President (2006–2008) of Rohm and Haas Co. (chemicals); Director of Arconic Inc.

(diversified manufacturer), HP Inc. (printer and personal computer manufacturing), and Delphi Automotive plc (automotive components); Senior Advisor at New Mountain Capital.

Amy Gutmann

Born 1949. Trustee Since June 2006. Principal Occupation(s) During the Past Five Years and Other Experience: President 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.

JoAnn Heffernan Heisen

Born 1950. Trustee Since July 1998. Principal Occupation(s) During the Past Five Years and Other Experience: Corporate Vice President and Member of the 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 (pharmaceuticals/medical devices/consumer products); 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 1949. Trustee Since October 2009. Principal Occupation(s) During the Past Five Years and Other Experience: President and Chief Operating Officer (retired 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 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) at IBM (information technology services); Fiduciary Member of IBM's Retirement Plan Committee (2004–2013); Director of the Dow Chemical Company; Member of the Council on Chicago Booth.

Scott C. Malpass

Born 1962. Trustee Since March 2012. Principal Occupation(s) During the Past Five Years and Other Experience: Chief Investment Officer and Vice President at the University of Notre Dame; Assistant Professor of Finance at the Mendoza College of Business at Notre Dame; Member of the Notre Dame 403(b) Investment Committee, the Board of Advisors for Spruceview Capital Partners, the Board of Catholic Investment Services, Inc. (investment advisor), and the Board of Superintendence of the Institute for the Works of Religion; Chairman of the Board of TIFF Advisory Services, Inc. (investment advisor).

André F. Perold

Born 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 Co-Managing Partner of HighVista Strategies LLC (private investment firm); Overseer of the Museum of Fine Arts Boston.

Peter F. Volanakis

Born 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); 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 1967. Investment Stewardship Officer Since February 2017. Principal Occupation(s) During the Past Five Years and Other Experience: Principal of The Vanguard Group, Inc.; Treasurer (2015–2017), Controller (2010–2015), and Assistant Controller (2001–2010) of each of the investment companies served by The Vanguard Group.

Thomas J. Higgins

Born 1957. Chief Financial Officer Since September 2008. Principal Occupation(s) During the Past Five Years and Other Experience: Principal of The Vanguard Group, Inc.; Chief Financial Officer of each of the investment companies served by The Vanguard Group; Treasurer of each of the investment companies served by The Vanguard Group (1998–2008).

Peter Mahonev

Born 1974. Controller Since May 2015. Principal Occupation(s) During the Past Five Years and Other Experience: Principal of The Vanguard Group, Inc.; Controller of each of the investment companies served by The Vanguard Group; Head of International Fund Services at The Vanguard Group (2008–2014).

Anne F. Robinson

Born 1970. Secretary Since September 2016. Principal Occupation(s) During the Past Five Years and Other Experience: Managing Director of The Vanguard Group, Inc.; General Counsel of The Vanguard Group; Secretary of The Vanguard Group and of each of the investment companies served by The Vanguard Group; Director and Senior Vice President of Vanguard Marketing Corporation; Managing Director and General Counsel of Global Cards and Consumer Services at Citigroup (2014–2016); Counsel at American Express (2003–2014).

Michael Rollings

Born 1963. Treasurer Since February 2017. Principal Occupation(s) During the Past Five Years and Other Experience: Managing Director of The Vanguard Group, Inc.; Treasurer of each of the investment companies served by The Vanguard Group; Director of Vanguard Marketing Corporation; Executive Vice President and Chief Financial Officer of MassMutual Financial Group (2006–2016).

Vanguard Senior Management Team

Mortimer J. Buckley John James Martha G. King John T. Marcante Chris D. McIsaac James M. Norris Thomas M. Rampulla Glenn W. Reed Karin A. Risi

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

- 1 Mr. McNabb is considered an "interested person," as defined in the Investment Company Act of 1940, because he is an officer of the Vanquard funds.
- 2 December 2002 for Vanguard Equity Income Fund, the Vanguard Municipal Bond Funds, and the Vanguard State Tax-Exempt Funds.



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

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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 and copy information about your fund at the SEC's Public Reference Room in Washington, D.C. To find out more about this public service, call the SEC at 202-551-8090. Information about your fund is also available on the SEC's website, and you can receive copies of this information, for a fee, by sending a request in either of two ways: via email addressed to publicinfo@sec.gov or via regular mail addressed to the Public Reference Section, Securities and Exchange Commission, Washington, DC 20549-1520.

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		Market Value
0	Shares	(\$000
Common Stocks (99.5%) ¹		
Basic Materials (2.5%)		. ====
Dow Chemical Co.	28,110,619	1,772,937
El du Pont de Nemours & Co.	19,964,585	1,611,342
Praxair Inc.	6,561,472	869,723
Ecolab Inc.	6,036,720	801,375
Air Products & Chemicals Inc.	4,999,917	715,288
PPG Industries Inc.	5,903,515	649,151
LyondellBasell Industries NV Class A	7,398,885	624,392
International Paper Co.	9,475,021	536,381
Nucor Corp.	7,336,174	424,544
Newmont Mining Corp.	12,291,815	398,132
Freeport-McMoRan Inc.	29,980,604	360,067
Celanese Corp. Class A	3,235,527	307,181
Albemarle Corp.	2,582,034	272,508
Eastman Chemical Co.	3,187,319	267,703
International Flavors & Fragrances Inc.	1,818,102	245,444
Arconic Inc.	10,131,485	229,478
FMC Corp.	3,075,889	224,694
Steel Dynamics Inc.	5,298,701	189,746
Mosaic Co.	8,043,737	183,639
Avery Dennison Corp.	2,029,330	179,332
RPM International Inc.	3,059,252	166,882
Chemours Co.	4,239,207	160,751
Axalta Coating Systems Ltd.	4,980,060	159,561
CF Industries Holdings Inc.	5,345,700	149,466
Alcoa Corp.	4,226,616	137,999
Huntsman Corp.	4,631,578	119,680
Royal Gold Inc.	1,509,554	118,002
Reliance Steel & Aluminum Co.	1,582,996	115,258
Olin Corp.	3,793,180	114,857
WR Grace & Co.	1,574,825	113,403
NewMarket Corp.	221,162	101,841
Ashland Global Holdings Inc.	1,416,707	93,375
Scotts Miracle-Gro Co.	1,025,753	91,764
United States Steel Corp.	3,997,669	88,508
Sensient Technologies Corp.	1,033,097	83,195
Versum Materials Inc.	2,505,405	81,426
PolyOne Corp.	1,882,223	72,917
Cabot Corp.	1,284,343	68,622
US Silica Holdings Inc.	1,851,200	65,699
Univar Inc.	2,233,665	65,223
HB Fuller Co.	1,177,504	60,182
Minerals Technologies Inc.	808,079	59,151
Westlake Chemical Corp.	883,911 4 560 501	58,524
Platform Specialty Products Corp.	4,560,591	57,828
Balchem Corp.	734,740	57,097
Domtar Corp.	1,450,201	55,717
Ingevity Corp.	968,005	55,563
CONSOL Energy Inc.	3,678,251	54,953
Worthington Industries Inc.	1,027,936	51,623
Commercial Metals Co.	2,652,537	51,539
Compass Minerals International Inc.	770,357	50,304
GCP Applied Technologies Inc. AK Steel Holding Corp.	1,628,531	49,670
	7,236,180	47,542
Cliffs Natural Resources Inc.	6,755,174	46,746
Hecla Mining Co.	9,151,124	46,671
Cambrex Corp.	741,990	44,334
Allegheny Technologies Inc.	2,499,968	42,524
Quaker Chemical Corp.	286,606	41,624
KapStone Paper and Packaging Corp.	1,969,989	40,641
Stepan Co.	465,268	40,543
Carpenter Technology Corp.	1,075,150	40,243

			Market Value
		Shares	(\$000)
*	Coeur Mining Inc.	4,187,418	35,928
	Innospec Inc.	537,785 1,807,701	35,252
^	Ferro Corp. Arch Coal Inc. Class A	1,897,791 484.135	34,711 33,066
	Kaiser Aluminum Corp.	371,767	32,909
	Neenah Paper Inc.	371,707	29,935
*,^	Peabody Energy Corp.	1,018,462	24,901
*	Kraton Corp.	701,550	24,161
*	AdvanSix Inc.	689,305	21,534
	Tronox Ltd. Class A	1,367,483	20,676
	A Schulman Inc.	635,523	20,337
	PH Glatfelter Co.	994,376	19,430
	Innophos Holdings Inc.	436,736	19,146
	Deltic Timber Corp.	253,456	18,923
	Calgon Carbon Corp.	1,199,077	18,106
*	Clearwater Paper Corp.	383,971	17,951
-	Century Aluminum Co.	1,112,718 161,416	17,336
*	Chase Corp. SunCoke Energy Inc.	1,531,394	17,223 16,692
*	Koppers Holdings Inc.	452,597	16,361
	Rayonier Advanced Materials Inc.	968,863	15,231
*,^	Fairmount Santrol Holdings Inc.	3,573,418	13,936
*	CSW Industrials Inc.	357,242	13,807
*	Veritiv Corp.	255,789	11,510
	Haynes International Inc.	305,972	11,110
	American Vanguard Corp.	620,443	10,703
	Aceto Corp.	670,872	10,365
	Hawkins Inc.	218,745	10,139
	Tredegar Corp.	647,317	9,872
	KMG Chemicals Inc.	200,495	9,758
*	OMNOVA Solutions Inc.	996,797	9,719
	Kronos Worldwide Inc.	532,122	9,695
	FutureFuel Corp.	539,444	8,140
	Nexeo Solutions Inc.	844,592	7,010
	Cloud Peak Energy Inc. Warrior Met Coal Inc.	1,888,047 370,925	6,665 6,354
*	Codexis Inc.	1,119,739	6,103
*	Resolute Forest Products Inc.	1,284,961	5,654
	Gold Resource Corp.	1,325,577	5,408
*,^	Intrepid Potash Inc.	2,343,082	5,295
*,^	LSB Industries Inc.	506,145	5,228
*,^	Uranium Energy Corp.	3,087,367	4,909
	Olympic Steel Inc.	225,013	4,383
	Hallador Energy Co.	499,693	3,883
*	Verso Corp.	795,449	3,731
*	Ryerson Holding Corp.	364,153	3,605
*	AgroFresh Solutions Inc.	455,612	3,271
	Ampco-Pittsburgh Corp.	201,425	2,971
*	Universal Stainless & Alloy Products Inc.	144,198	2,812
*,^	Ur-Energy Inc. ChromaDex Corp.	3,850,766 569,641	2,415 2,176
*	Synalloy Corp.	191,382	2,170
*	Westmoreland Coal Co.	438,736	2,172
*	Real Industry Inc.	637,189	1,848
*	Northern Technologies International Corp.	63,670	1,016
*,^	Pershing Gold Corp.	343,291	958
*	NL Industries Inc.	107,187	756
*,^	Ramaco Resources Inc.	124,749	755
*	Handy & Harman Ltd.	21,458	674
	Friedman Industries Inc.	105,718	600
*	Senomyx Inc.	643,987	535
*,^	Uni-Pixel Inc.	1,217,492	465
	United-Guardian Inc.	27,515	425
*	Centrus Energy Corp. Class A	89,678	377

			Market
		Shares	Value (\$000)
*	Solitario Exploration & Royalty Corp.	514,972	345
*,^	Comstock Mining Inc.	1,807,876	330
*	General Moly Inc.	826,813	305
*,^	Golden Minerals Co. Marrone Bio Innovations Inc.	491,286 176,690	276 228
*	Dynasil Corp. of America	176,090	191
*	Rentech Inc.	152,312	69
*	Ikonics Corp.	6,410	57
*,^	Uranium Resources Inc.	25,983	39
*	TOR Minerals International Inc.	2,580	21
*,^	Paramount Gold Nevada Corp.	5,300	8
*	US Antimony Corp. Senestech Inc.	6,800 200	3 1
0	0 1 (0.0%)		14,799,532
Col	nsumer Goods (9.6%) Procter & Gamble Co.	58,939,340	5,136,563
	Philip Morris International Inc.	35,780,975	4,202,475
	Coca-Cola Co.	88,612,244	3,974,259
	PepsiCo Inc.	32,956,942	3,806,197
	Altria Group Inc.	44,516,118	3,315,115
	NIKE Inc. Class B	30,387,385	1,792,856
	Colgate-Palmolive Co.	20,335,163	1,507,446
	Mondelez International Inc. Class A	33,178,575	1,432,983
	Reynolds American Inc. Kraft Heinz Co.	19,725,963 14,004,845	1,282,977 1,199,375
	Monsanto Co.	10,101,139	1,195,571
	Kimberly-Clark Corp.	8,178,346	1,055,906
	General Motors Co.	29,443,723	1,028,469
*,^	Tesla Inc.	2,836,742	1,025,794
	Ford Motor Co.	89,687,054	1,003,598
	Activision Blizzard Inc.	16,447,709	946,895
*	General Mills Inc. Electronic Arts Inc.	13,295,936 6,769,768	736,595 715,700
	Constellation Brands Inc. Class A	3,566,162	690,873
	Newell Brands Inc.	11,127,379	596,650
	Archer-Daniels-Midland Co.	13,120,192	542,914
	Delphi Automotive plc	6,170,927	540,882
	Stanley Black & Decker Inc.	3,517,630	495,036
	Estee Lauder Cos. Inc. Class A	5,141,819	493,512
*	Monster Beverage Corp.	9,828,363	488,273
	Tyson Foods Inc. Class A Clorox Co.	6,610,662 2,946,548	414,026 392,598
	Kellogg Co.	5,617,698	390,205
	Dr Pepper Snapple Group Inc.	4,221,481	384,619
	Conagra Brands Inc.	9,943,014	355,562
*	Mohawk Industries Inc.	1,452,873	351,145
	VF Corp.	6,061,807	349,160
	Molson Coors Brewing Co. Class B	4,020,460	347,127
	Hershey Co.	3,136,885	336,807
	Whirlpool Corp. Church & Dwight Co. Inc.	1,709,560 5,927,455	327,586 307,516
	Coach Inc.	6,432,521	304,516
	Genuine Parts Co.	3,238,313	300,386
	JM Smucker Co.	2,533,911	299,838
	Hasbro Inc.	2,584,865	288,238
	DR Horton Inc.	8,166,922	282,330
	McCormick & Co. Inc.	2,597,945	253,326
	Lennar Corp. Class A	4,614,853	246,064
	Bunge Ltd. Campbell Soup Co.	3,221,584 4,574,592	240,330 238,565
	Lear Corp.	1,596,481	226,828
*	LKQ Corp.	6,694,438	220,582
	Harley-Davidson Inc.	4,037,290	218,094
	Snap-on Inc.	1,326,606	209,604
		. ,	•

			Market Value
		Shares	(\$000)
	PVH Corp.	1,812,642	207,547
	BorgWarner Inc.	4,894,272	207,321
	Hormel Foods Corp.	6,076,407	207,266
*	Goodyear Tire & Rubber Co.	5,777,665	201,987
	NVR Inc. Brown-Forman Corp. Class B	81,988 4,062,318	197,641 197,429
	Ingredion Inc.	1,643,406	195,910
	Hanesbrands Inc.	8,444,135	195,566
	Leucadia National Corp.	7,426,648	194,281
	Coty Inc. Class A	10,317,592	193,558
*	Take-Two Interactive Software Inc.	2,374,725	174,257
	Mattel Inc.	7,866,111	169,357
	Pinnacle Foods Inc.	2,717,780	161,436
*	Middleby Corp.	1,321,033	160,519
	PulteGroup Inc.	6,525,663	160,074
*	Leggett & Platt Inc. WABCO Holdings Inc.	3,038,084 1,191,482	159,591 151,926
	Lamb Weston Holdings Inc.	3,336,235	146,928
	Toll Brothers Inc.	3,532,998	139,589
*	Lululemon Athletica Inc.	2,182,534	130,232
*	Michael Kors Holdings Ltd.	3,549,223	128,659
	Brunswick Corp.	2,043,386	128,182
^	Polaris Industries Inc.	1,370,319	126,385
	Gentex Corp.	6,627,913	125,731
	Thor Industries Inc.	1,146,871	119,871
*	Valvoline Inc.	4,687,909	111,197
*,^	Post Holdings Inc. Herbalife Ltd.	1,422,288	110,441
*	TreeHouse Foods Inc.	1,497,096 1,302,080	106,788 106,367
	Pool Corp.	898,064	105,585
*	Edgewell Personal Care Co.	1,318,338	100,220
	Ralph Lauren Corp. Class A	1,286,978	94,979
	Carter's Inc.	1,048,690	93,281
*	Hain Celestial Group Inc.	2,391,302	92,830
*,^	Under Armour Inc. Class A	4,227,140	91,983
*	Skechers U.S.A. Inc. Class A	3,049,031	89,946
*	US Foods Holding Corp.	3,276,113	89,176
*,^	Under Armour Inc. Visteon Corp.	4,282,250 748,956	86,330 76,438
	Flowers Foods Inc.	4,311,912	74,639
	Nu Skin Enterprises Inc. Class A	1,184,950	74,462
	Dana Inc.	3,298,566	73,657
*,^	Wayfair Inc.	947,281	72,827
	Tenneco Inc.	1,251,858	72,395
	Energizer Holdings Inc.	1,414,209	67,910
	Spectrum Brands Holdings Inc.	537,739	67,239
*	Zynga Inc. Class A	18,044,409	65,682
	Tupperware Brands Corp.	929,190	65,257
*	CalAtlantic Group Inc. Dorman Products Inc.	1,793,943 760,691	63,416 62,962
	Snyder's-Lance Inc.	1,764,177	61,076
*	Darling Ingredients Inc.	3,820,856	60,140
	Wolverine World Wide Inc.	2,141,964	59,996
*	Welbilt Inc.	3,166,268	59,684
*	Helen of Troy Ltd.	622,093	58,539
*,^	Tempur Sealy International Inc.	1,084,037	57,877
	LCI Industries	539,376	55,232
*	Kate Spade & Co.	2,932,791	54,227
	Lancaster Colony Corp.	439,703	53,916
	B&G Foods Inc.	1,508,523	53,703
*	Sanderson Farms Inc. iRobot Corp.	460,721 601,656	53,282 50,623
*	Deckers Outdoor Corp.	728,058	50,623 49,697
*	Steven Madden Ltd.	1,242,049	49,620
	212.2	1,272,070	10,020

			Market Value
		Shares	(\$000)
*	Blue Buffalo Pet Products Inc.	2,075,517	47,343
*	Vector Group Ltd.	2,204,783	47,006
	TRI Pointe Group Inc. KB Home	3,509,199 1,881,059	46,286 45,089
	J&J Snack Foods Corp.	339,744	44,870
	Cooper Tire & Rubber Co.	1,206,278	43,547
	Herman Miller Inc.	1,367,969	41,586
*	Cooper-Standard Holdings Inc.	405,090	40,861
	HNI Corp.	1,012,407	40,365
	Fresh Del Monte Produce Inc.	763,958	38,893
*	Avon Products Inc.	10,057,591	38,219
*	Taylor Morrison Home Corp. Class A	1,582,830	38,004
	Columbia Sportswear Co.	652,904	37,908
*	Universal Corp.	581,328	37,612
*	Meritage Homes Corp.	886,256	37,400
	La-Z-Boy Inc.	1,111,301	36,117
*	Nutrisystem Inc. Select Comfort Corp.	679,067 977,573	35,345 34,694
	Dean Foods Co.	2,034,790	34,591
	WD-40 Co.	305,565	33,719
	MDC Holdings Inc.	934,026	32,999
*	Gentherm Inc.	830,317	32,216
*,^	Hostess Brands Inc. Class A	1,998,683	32,179
	Interface Inc. Class A	1,598,227	31,405
*	Vista Outdoor Inc.	1,365,040	30,727
*	ACCO Brands Corp.	2,509,081	29,231
*	American Axle & Manufacturing Holdings Inc.	1,857,332	28,974
*	Fox Factory Holding Corp.	805,702	28,683
*	Boston Beer Co. Inc. Class A	210,863	27,866
	Callaway Golf Co.	2,140,206	27,352
*,^	Pilgrim's Pride Corp.	1,228,928	26,938
	Seaboard Corp.	6,676	26,671
*,^	Cavo Industries Inc.	199,610	25,879
^,^	Cal-Maine Foods Inc. Schweitzer-Mauduit International Inc.	652,731 688,983	25,848 25,651
	Winnebago Industries Inc.	728,582	25,500
	Steelcase Inc. Class A	1,806,418	25,290
٨	Calavo Growers Inc.	363,738	25,116
	National Beverage Corp.	267,844	25,059
	Coca-Cola Bottling Co. Consolidated	106,178	24,301
	Standard Motor Products Inc.	459,472	23,994
	Briggs & Stratton Corp.	947,267	22,829
*	G-III Apparel Group Ltd.	896,708	22,373
*	Universal Electronics Inc.	322,965	21,590
	Oxford Industries Inc.	344,919	21,554
	Knoll Inc.	1,039,534	20,843
* .	Andersons Inc.	581,648	19,863
*,^	Fitbit Inc. Class A Ethan Allen Interiors Inc.	3,726,219	19,786
*	Modine Manufacturing Co.	604,630 1,150,131	19,530 19,035
*	Central Garden & Pet Co. Class A	603,832	18,127
*	M/I Homes Inc.	588,359	16,798
*	USANA Health Sciences Inc.	262,005	16,795
*,^	GoPro Inc. Class A	2,015,834	16,389
	Phibro Animal Health Corp. Class A	437,127	16,196
*,^	LGI Homes Inc.	396,632	15,937
	Camping World Holdings Inc. Class A	501,358	15,467
^	Tootsie Roll Industries Inc.	433,221	15,098
	Kimball International Inc. Class B	900,009	15,021
*,^	William Lyon Homes Class A	618,377	14,928
*	Nautilus Inc.	770,303	14,751
^	MGP Ingredients Inc.	286,821	14,677
	Inter Parfums Inc.	399,505	14,642
*	Crocs Inc.	1,830,465	14,113

National Prests Industries Inc.				Market
National Presto Industries Inc.			Shares	Value
11. El, Beauty, Inc. 443,876 13,166 Contral Gordon & Pet Co. 403,909 12,843 Tittan International Inc. 1,066,683 12,680 Motocra Past of America Inc. 44,600 12,565 Lenner Corp. Class B 273,081 12,308 John B Santilippo & Son Inc. 88,191 11,500 John B Santilippo & Son Inc. 80,934 11,510 John B Santilippo & Son Inc. 30,934 11,511 Maliba Bosta Inc. Class A 412,624 10,775 Hooker Furniture Gorp. 258,166 10,775 Hower International Inc. 448,305 10,677 Tower International Inc. 448,305 10,673 Aushard Holdings Corp. 293,238 9,881 Movale Group Inc. 393,238 9,881 Movale Group Inc. 217,085 9,002 Conick Brand Group Inc. 12,268	_	National Proeto Industrias Inc		
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Motorar Parts of America Inc. 444,4600 12,555 Lennar Corp. Class B 273,691 12,308 John B Sartilippo & Son Inc. 183,219 11,563 Support Includerties International Inc. 380,303 11,400 Unif Inc. 380,325 10,709 Hossil Graph Inc. 380,325 10,709 Hossil Graph Inc. 1,305,202 10,773 Acadinate Holdings Corp. 258,455 10,737 Acadinate Holdings Corp. 528,156 10,737 Acadinate Holdings Corp. 580,303 9,881 Tower International Inc. 448,305 10,064 Mordinate Inc. 380,333 9,881 Movade Group Inc. 380,383 9,159 Floatsteel Industries Inc. 166,088 9,159 Hoxacteel Industries Inc. 227,085 9,002 Lorink Brand Group Inc. 227,085 8,334 Ornegal Protein Corp. 470,213 8,417 Probabet Inc. United Materials Inc. 242,256 7,907 Farmer Brothers Co. 257,556 7,				
John B Sanflippo & Son Inc.	*	Motorcar Parts of America Inc.	444,600	
Superior Industries International Inc.		Lennar Corp. Class B	273,691	12,308
8 Baser Homes USA Inc. 880,934 11,400 Vomin Inc. 350,325 10,790 Nossil Group Inc. 1,085,266 10,715 Holku Basta Inc. Class A 412,542 10,672 Hober Furniture Corp. 256,945 10,573 Acustinet Holdings Corp. 303,083 10,672 Towar International Inc. 303,083 9,881 Century Communities Inc. 303,981 9,337 Stonardige Inc. 393,818 9,337 Fissisted Industries Inc. 188,988 9,000 Fissisted Industries Inc. 188,988 9,000 Inc. Fissisted Industries Inc. 188,988 9,000 Inc. Fissisted Industries Inc. 188,988 9,000 Inc. Fissisted Industries Inc. 124,221 8,100 Inc. Fissisted Industries Inc. 124,231 8,100 Inc. Fissisted Industries Inc. 124,243 8,100 Inc. Fissisted Industries Inc. 124,243 8,10 Inc. Fissisted Industries Inc. 124,243 8,10 Inc. Fissisted Industries Inc. <t< td=""><td></td><td></td><td>183,219</td><td></td></t<>			183,219	
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*** Craft Brew Alliance Inc. 210,121 3,541 *** Sequential Brands Group Inc. 863,477 3,445 Lifetime Brands Inc. 185,281 3,363 Marine Products Corp. 215,360 3,362 *** 22nd Century Group Inc. 1,885,251 3,299 Orchids Paper Products Co. 254,554 3,296 Weyco Group Inc. 214,453 3,191 ** Lakeland Industries Inc. 206,432 2,993 ** New Home Co. Inc. 258,826 2,969 ** Delta Apparel Inc. 129,662 2,876 ** Black Diamond Inc. 403,894 2,686 ** Vuzix Corp. 406,195 2,661 Strattec Security Corp. 74,291 2,630 A-Mark Precious Metals Inc. 152,127 2,501 Rocky Brands Inc. 183,158 2,463 ** Shiloh Industries Inc. 208,222 2,445 Crown Crafts Inc. 324,287 2,238		Superior Uniform Group Inc.	179,445	4,011
*** Sequential Brands Group Inc. 863,477 3,445 Lifetime Brands Inc. 185,281 3,363 Marine Products Corp. 215,360 3,362 *** 22nd Century Group Inc. 1,885,251 3,298 Orchids Paper Products Co. 254,554 3,296 Weyco Group Inc. 114,453 3,191 ** Lakeland Industries Inc. 206,432 2,993 ** New Home Co. Inc. 258,826 2,969 ** Delta Apparel Inc. 129,662 2,876 ** Black Diamond Inc. 403,894 2,686 ** Vuzix Corp. 406,195 2,661 Strattec Security Corp. 74,291 2,630 A-Mark Precious Metals Inc. 152,127 2,501 Rocky Brands Inc. 183,158 2,463 ** Shiloh Industries Inc. 208,222 2,445 Crown Crafts Inc. 324,287 2,238			492,491	3,969
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Shiloh Industries Inc. 208,222 2,445 Crown Crafts Inc. 324,287 2,238				
Crown Crafts Inc. 324,287 2,238	*		·	
	*,^	New Age Beverages Corp.		

Nature's Sunshine Products Inc.				Market Value
Autorit Technologies Inc.			Shares	(\$000)
Tuming Point Brancis Inc.				
PolentyTE Inc.	*,^			
Alliance One International Inc.	*			
Ecalade Inc.				
MAKISC Pacific Inc.	*			
Inventure Foods Inc.	* ^		•	
American	*			
Unique Fabricating Inc.				
Natural Attranstrues International Inc.			•	
Natural Alternatives International Inc. 143,089 1,421 Alco Inc. 65,656 1,366 US Auto Parts Natwork Inc. 25,056 1,366 Us Die Group Inc. 280,522 1,262 Vice Manufacturing Corp. 276,235 1,196 Virco Manufacturing Corp. 218,789 1,171 Rocky Mountain Chocolate Factory Inc. 274,141 1,138 S SWW Seed Co. 274,141 1,138 Lifewary Foods Inc. 38,227 917 LS Starrett Co. Class A 101,469 383 Alpha Pro Tech Ltd. 282,000 862 S Klyine Corp. 141,200 860 T andy Leather Factory Inc. 114,89 198 Coffee Holding Co. Inc. 114,89 198 Coffee Holding Co. Inc. 349,661 558 Coffee Holding Co. Inc. 349,661 558 Williamette Valley Vineyards Inc. 48,431 413 Read's Inc. 168,431 413 Zedge Inc. Class A 161,209 212 Williamette Valley Vineyards Inc. 18,431 413 Read's	*,^	·	•	
Kewaunes Scientific Corp. 5,565 1,386 US Auto Parts Network Inc. 241,727 1,362 Disie Group Inc. 280,522 1,252 Lifewardage Corp. 218,789 1,171 Rocky Mountain Chocolate Factory Inc. 218,789 1,171 SS SW Seed Co. 274,141 1,138 Lifewary Foods Inc. 282,27 917 L S Starrett Co. Class A 101,469 873 Alpha Pro Carb Ltd. 292,060 862 Skyline Corp. 141,200 850 Tandy Lather Factory Inc. 114,891 798 Coffee holding Co. Inc. 33,986 540 Vice Holding Co. Inc. 33,986 540 Nova Lifestyle Inc. 33,986 540 Vice Holding Co. Inc. 33,986 540 Vice Holding Co. Inc. 33,986 540 Nova Lifestyle Inc. 33,986 540 Vice Holding Corp. 56,833 461 Reed's Inc. 168,331 413 Zadge Inc. Class B 144,248 319 Fernale Health Co. 12,986 234	*	Natural Alternatives International Inc.		
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No bis Group Inc. 280.522 1.262 Lifewandsecturing Corp. 218.788 1.171 Packy Mountain Chaccalate Factory Inc. 218.788 1.171 Packy Mountain Chaccalate Factory Inc. 274.141 1.138 S SW Seed Co. 274.141 1.138 L If lewary Foods Inc. 274.141 1.138 Alpha Pro Gods Inc. 101.469 8873 Alpha Pro Geh Ltd. 292.060 862 S Kyline Corp. 141.200 850 T Tandy Leather Factory Inc. 130.802 583 C Coffee Holding Co. Inc. 113.891 798 Mose Lifestyle Inc. 33.986 540 Now Lifestyle Inc. 349.661 52.8 Williamette Valley Vineyards Inc. 56.933 461 E Read Inc. 158.233 461 E Read Inc. 168.431 413 S Edge Inc. Class B 144.348 319 E Female Health Co. 129.298.592 314 Vince Holding Corp. 188.620 223.49 Vince Holding Corp. </td <td></td> <td></td> <td>55,565</td> <td></td>			55,565	
Lifevantage Corp. 276,235 1,196 Virco Manufacturing Corp. 218,789 1,171 Rocky Mountain Chocolate Factory Inc. 37,315 1,148 S&W Seed Co. 274,141 1,138 Lifeway Foods Inc. 38,227 917 LS Starrett Co. Class A 101,469 873 Alpha Pro Tech Ltd. 292,060 882 Skyline Corp. 141,200 880 Tandy Leather Factory Inc. 33,919 336 Chorokee Inc. 114,881 798 Coffee Holding Co. Inc. 33,919 836 Monatett Valley Vineyards Inc. 33,918 583 Williamstet Valley Vineyards Inc. 59,933 481 Read's Inc. 188,431 413	*		•	
Norson Manufacturing Corp. 118,788 1,174 1,148	*			
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Lifeway Foots Inc.	* *			
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Time Warner Inc. 16,920,837 1,699,021				
		Time Warner Inc.	16,920,837	1,699,021

			Market Value
		Shares	(\$000)
	Walgreens Boots Alliance Inc.	21,148,426	1,656,133
	Costco Wholesale Corp.	10,103,315	1,615,823
*	Charter Communications Inc. Class A	4,614,719	1,554,468
*	Lowe's Cos. Inc. Netflix Inc.	19,720,478 9,424,638	1,528,929 1,408,135
	TJX Cos. Inc.	14,062,974	1,014,925
*	eBay Inc.	23,752,461	829,436
	Delta Air Lines Inc.	15,137,077	813,467
	McKesson Corp.	4,857,103	799,188
	Southwest Airlines Co.	12,704,027	789,428
	Marriott International Inc. Class A	6,600,207	662,067
	Target Corp. Twenty-First Century Fox Inc. Class A	12,656,048 22,759,371	661,785 645,001
	Yum! Brands Inc.	7,961,381	587,231
	Las Vegas Sands Corp.	9,149,493	584,561
	Carnival Corp.	8,640,768	566,575
	Cardinal Health Inc.	7,254,428	565,265
	Sysco Corp.	11,131,050	560,226
	CBS Corp. Class B	8,279,842	528,088
	Ross Stores Inc.	9,042,513	522,024
	American Airlines Group Inc. Kroger Co.	10,322,917 21,399,905	519,449 499,046
*	United Continental Holdings Inc.	6,114,872	460,144
*	O'Reilly Automotive Inc.	2,096,002	458,479
	Dollar General Corp.	6,308,982	454,815
	Omnicom Group Inc.	5,404,374	448,023
	Royal Caribbean Cruises Ltd.	3,957,522	432,280
	Expedia Inc.	2,840,904	423,153
*	Ulta Beauty Inc.	1,355,181	389,398
*	AutoZone Inc. MGM Resorts International	655,699 11,881,601	374,050 371,775
*	Dollar Tree Inc.	5,147,468	359,911
	AmerisourceBergen Corp. Class A	3,766,741	356,070
	Best Buy Co. Inc.	6,020,603	345,161
	Nielsen Holdings plc	8,202,213	317,098
*	DISH Network Corp. Class A	4,965,146	311,613
	Whole Foods Market Inc.	7,328,997	308,624
	L Brands Inc. Hilton Worldwide Holdings Inc.	5,573,671 4,852,410	300,365 300,122
	Twenty-First Century Fox Inc.	4,852,419 10,597,703	295,358
	Viacom Inc. Class B	8,306,712	278,856
*	Chipotle Mexican Grill Inc. Class A	658,690	274,081
*,^	CarMax Inc.	4,284,370	270,172
	Darden Restaurants Inc.	2,850,974	257,842
	Tiffany & Co.	2,716,139	254,964
	Alaska Air Group Inc.	2,831,513	254,157
	Wynn Resorts Ltd. Wyndham Worldwide Corp.	1,882,188 2,400,370	252,439 241,021
	Aramark	5,733,878	234,974
	Domino's Pizza Inc.	1,102,818	233,279
*	Liberty Interactive Corp. QVC Group Class A	9,323,742	228,805
	Interpublic Group of Cos. Inc.	9,043,901	222,480
*	Norwegian Cruise Line Holdings Ltd.	3,660,774	198,743
	Vail Resorts Inc.	922,849	187,181
^	Advance Auto Parts Inc. Sirius XM Holdings Inc.	1,600,035 32,746,965	186,548 179,126
*	JetBlue Airways Corp.	7,745,474	179,126
*	VCA Inc.	1,778,200	164,146
	Tractor Supply Co.	2,998,556	162,552
	Macy's Inc.	6,985,892	162,352
*	Panera Bread Co. Class A	488,784	153,791
٨	Kohl's Corp.	3,973,333	153,649
	News Corp. Class A	11,180,298	153,170
	FactSet Research Systems Inc.	909,375	151,120

		Market Value
	Shares	(\$000)
Staples Inc.	14,942,494	150,471
Liberty Media Corp-Liberty SiriusXM Class C Shares	3,590,367	149,718
Foot Locker Inc.	3,031,380	149,386
Burlington Stores Inc.	1,614,018	148,474
H&R Block Inc.	4,754,224	146,953
Copart Inc.	4,508,043	143,311
Service Corp. International KAR Auction Services Inc.	4,128,774 3,161,954	138,107 132,707
Scripps Networks Interactive Inc. Class A	1,936,584	132,288
Nordstrom Inc.	2,702,851	129,277
Discovery Communications Inc.	4,927,516	124,223
Liberty Media Corp-Liberty Formula One	3,367,024	123,300
ServiceMaster Global Holdings Inc.	3,108,761	121,832
Gap Inc.	5,469,020	120,264
Dunkin' Brands Group Inc.	2,100,962	115,805
Live Nation Entertainment Inc.	3,097,644	107,953
Six Flags Entertainment Corp.	1,755,039	104,618
Signet Jewelers Ltd.	1,593,914	100,799
Bed Bath & Beyond Inc.	3,257,919	99,041
Cinemark Holdings Inc.	2,530,580	98,313
TripAdvisor Inc.	2,551,743	97,477
Casey's General Stores Inc.	907,817	97,236
Sabre Corp.	4,431,729	96,479
Liberty Media Corp-Liberty SiriusXM Class A Shares	2,225,900	93,443
Cracker Barrel Old Country Store Inc.	555,252	92,866
Rollins Inc.	2,274,858	92,609
Bright Horizons Family Solutions Inc.	1,177,420	90,909
Discovery Communications Inc. Class A	3,507,586	90,601
Dun & Bradstreet Corp.	837,682	90,595
Williams-Sonoma Inc.	1,793,845	87,001
Grand Canyon Education Inc. GrubHub Inc.	1,103,252 1,983,445	86,506 86,478
Madison Square Garden Co. Class A	436,744	85,995
Spirit Airlines Inc.	1,594,665	82,364
Extended Stay America Inc.	4,216,988	81,641
Dick's Sporting Goods Inc.	1,916,758	76,344
Cable One Inc.	106,251	75,534
Cabela's Inc.	1,257,294	74,708
Texas Roadhouse Inc. Class A	1,455,993	74,183
AMC Networks Inc. Class A	1,352,974	72,262
Chemed Corp.	350,474	71,682
Rite Aid Corp.	24,200,769	71,392
TEGNA Inc.	4,939,806	71,183
Jack in the Box Inc.	718,908	70,812
Liberty Expedia Holdings Inc. Class A	1,294,277	69,917
Tribune Media Co. Class A	1,692,629	69,008
AutoNation Inc.	1,625,675	68,538
ILG Inc.	2,475,827	68,060
Wendy's Co.	4,383,723	67,992
Sprouts Farmers Market Inc.	2,983,193	67,629
Beacon Roofing Supply Inc.	1,377,835	67,514
Sally Beauty Holdings Inc.	3,268,011	66,177
Office Depot Inc. Dave & Buster's Entertainment Inc.	11,642,212 968,452	65,662
Dolby Laboratories Inc. Class A	1,313,616	64,412 64,315
Aaron's Inc.	1,645,114	63,995
Graham Holdings Co. Class B	104,623	62,737
Five Below Inc.	1,255,093	61,964
Nexstar Media Group Inc. Class A	1,013,360	60,599
Murphy USA Inc.	799,396	59,243
Marriott Vacations Worldwide Corp.	495,695	58,368
Hilton Grand Vacations Inc.	1,592,777	57,436
Sinclair Broadcast Group Inc. Class A	1,744,313	57,388

			Market
		Shares	Value (\$000)
*	Lions Gate Entertainment Corp. Class B	2,163,433	56,855
*,^	Stamps.com Inc.	363,965	56,369
	John Wiley & Sons Inc. Class A	1,065,968	56,230
*,^	Sotheby's	1,027,670	55,155
	Churchill Downs Inc.	297,352	54,505
	Meredith Corp.	905,679	53,843
	Regal Entertainment Group Class A Choice Hotels International Inc.	2,604,145	53,281
	New York Times Co. Class A	828,616 2,970,668	53,239 52,581
	PriceSmart Inc.	594,256	52,057
*	Yelp Inc. Class A	1,733,998	52,055
*	Performance Food Group Co.	1,897,329	51,987
	AMERCO	141,061	51,637
	Cheesecake Factory Inc.	1,022,915	51,453
*	Michaels Cos. Inc.	2,772,838	51,353
*	WebMD Health Corp.	860,693	50,480
	GameStop Corp. Class A	2,334,847	50,456
*	Buffalo Wild Wings Inc.	394,465	49,979
*	Caesars Acquisition Co. Class A	2,596,249	49,459
	Big Lots Inc.	1,012,175	48,888
*	Lithia Motors Inc. Class A Adtalem Global Education Inc.	516,981 1,277,086	48,715
*	Avis Budget Group Inc.	1,763,421	48,465 48,088
	Bloomin' Brands Inc.	2,259,238	47,964
	Hillenbrand Inc.	1,327,620	47,927
*	Ollie's Bargain Outlet Holdings Inc.	1,111,020	47,329
	Planet Fitness Inc. Class A	2,016,528	47,066
*,^	Pandora Media Inc.	5,211,134	46,483
	American Eagle Outfitters Inc.	3,814,490	45,965
*,^	Altice USA Inc. Class A	1,418,418	45,815
*,^	RH	699,383	45,124
	Papa John's International Inc.	627,440	45,025
	Boyd Gaming Corp.	1,813,118	44,983
*,^	Cars.com Inc.	1,683,324	44,827
*	Acxiom Corp. Brinker International Inc.	1,715,593	44,571
*	Hyatt Hotels Corp. Class A	1,166,040 774,069	44,426 43,510
	Matthews International Corp. Class A	774,009	43,178
*	United Natural Foods Inc.	1,153,601	42,337
	Allegiant Travel Co. Class A	304,254	41,257
*	SiteOne Landscape Supply Inc.	768,790	40,023
	Children's Place Inc.	388,927	39,709
*	Penn National Gaming Inc.	1,845,902	39,502
	SkyWest Inc.	1,125,124	39,492
*	Groupon Inc. Class A	9,487,200	36,431
^	Lions Gate Entertainment Corp. Class A	1,279,276	36,101
	Red Rock Resorts Inc. Class A	1,513,633	35,646
*	Shutterfly Inc.	747,196	35,492
*,^	Etsy Inc.	2,318,306	34,775
*	Penske Automotive Group Inc. Urban Outfitters Inc.	788,274 1,856,370	34,613 34,417
	Core-Mark Holding Co. Inc.	1,034,461	34,119
	Morningstar Inc.	416,392	32,620
	Bob Evans Farms Inc.	453,941	32,607
*	MSG Networks Inc.	1,418,581	31,847
*	Scientific Games Corp. Class A	1,215,152	31,715
*	Trade Desk Inc. Class A	621,842	31,160
*	Houghton Mifflin Harcourt Co.	2,530,502	31,125
*,^	JC Penney Co. Inc.	6,580,414	30,599
*	Rush Enterprises Inc. Class A	821,489	30,543
	Monro Muffler Brake Inc.	727,087	30,356
*	TrueCar Inc.	1,509,819	30,091
	Time Inc.	2,068,867	29,688
	Group 1 Automotive Inc.	463,850	29,371

Chico's FAS Inc. 3,018,220 La Quinta Holdings Inc. 1,895,681 DSW Inc. Class A 1,532,039 Belmond Ltd. Class A 1,996,795 Caleres Inc. 950,982 AMC Entertainment Holdings Inc. Class A 1,136,904 SeaWorld Entertainment Inc. 1,565,950 Asbury Automotive Group Inc. 442,982 Gannett Co. Inc. 2,794,952 Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 EW Scripps Co. Class A 1,335,404 Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 Eldorado Resorts Inc. 240,199 Herc Holdings Inc. 566,999 SUFERVALU Inc. 6680,984 Weight Watchers International Inc. 656,021 SpartanNash Co. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534	(\$000) 28,432 27,999 27,117 26,557 26,418 25,865 25,478 25,051 24,372 24,150 24,048 23,926 23,919
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DSW Inc. Class Å 1,532,039 Belmond Ltd. Class A 1,996,795 Caleres Inc. 950,982 AMC Entertainment Holdings Inc. Class A 1,136,904 SeaWorld Entertainment Inc. 1,565,950 Asbury Automotive Group Inc. 442,982 Gannett Co. Inc. 2,794,952 Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 EW Scripps Co. Class A 1,335,404 Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 Eldorado Resorts Inc. 240,199 Herc Holdings Inc. 566,999 SUPERVALU Inc. 6,680,984 Weight Watchers International Inc. 656,021 SpartanNash Co. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Beldroourmet Burgers Inc. 314,954 <td>27,117 26,557 26,418 25,865 25,478 25,051 24,372 24,150 24,048 23,926 23,919</td>	27,117 26,557 26,418 25,865 25,478 25,051 24,372 24,150 24,048 23,926 23,919
* Belmond Ltd. Class A 1,996,795 Caleres Inc. 950,982 AMC Entertainment Holdings Inc. Class A 1,136,904 * SeaWorld Entertainment Inc. 1,565,950 * Asbury Automotive Group Inc. 442,982 Gannett Co. Inc. 2,794,952 Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 * EW Scripps Co. Class A 1,335,404 * Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 * Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 Herc Holdings Inc. 566,999 * SUPERVALU Inc. 6,680,984 * Weight Watchers International Inc. 666,021 SpartanNash Co. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 314,954	26,557 26,418 25,865 25,478 25,051 24,372 24,150 24,048 23,926 23,919
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AMC Entertainment Holdings Inc. Class A 1,136,904 SeaWorld Entertainment Inc. 1,565,950 Asbury Automotive Group Inc. 442,982 Gannett Co. Inc. 2,794,952 Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 EW Scripps Co. Class A 1,335,404 Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 Herc Holdings Inc. 566,999 SUPERVALU Inc. 6,680,984 Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 * Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Red Robin Gourmet Burgers Inc. 314,954	25,865 25,478 25,051 24,372 24,150 24,048 23,926 23,919
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Gannett Co. Inc. 2,794,952 Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 EW Scripps Co. Class A 1,335,404 * Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 Herc Holdings Inc. 566,999 SUPERVALU Inc. 6,680,984 * Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 * Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Red Robin Gourmet Burgers Inc. 314,954	24,372 24,150 24,048 23,926 23,919
Pinnacle Entertainment Inc. 1,222,158 Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 EW Scripps Co. Class A 1,335,404 *^ Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 * Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 * Herc Holdings Inc. 566,999 * SUPERVALU Inc. 6,680,984 * Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 * Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 * Gray Television Inc. 1,522,534 A Dillard's Inc. Class A 359,343 * Red Robin Gourmet Burgers Inc. 314,954	24,150 24,048 23,926 23,919
Sonic Corp. 907,804 HSN Inc. 750,020 Scholastic Corp. 548,733 * EW Scripps Co. Class A 1,335,404 *^ Liberty Media Corp-Liberty Formula One Class A 674,725 Capella Education Co. 270,468 International Speedway Corp. Class A 608,776 * Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 * Herc Holdings Inc. 566,999 * SUPERVALU Inc. 6,680,984 *^ Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 * Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 * Gray Television Inc. 1,522,534 * Dillard's Inc. Class A 359,343 * Red Robin Gourmet Burgers Inc. 314,954	24,048 23,926 23,919
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International Speedway Corp. Class A 608,776 Iteldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 Herc Holdings Inc. 566,999 SUPERVALU Inc. 6,680,984 Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Red Robin Gourmet Burgers Inc. 314,954	23,636
* Eldorado Resorts Inc. 1,119,836 Strayer Education Inc. 240,199 * Herc Holdings Inc. 566,999 * SUPERVALU Inc. 6,680,984 * Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 * Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 * Gray Television Inc. 1,522,534 ^ Dillard's Inc. Class A 359,343 * Red Robin Gourmet Burgers Inc. 314,954	23,152
Strayer Education Inc. 240,199 Herc Holdings Inc. 566,999 SUPERVALU Inc. 6,680,984 Weight Watchers International Inc. 656,021 SpartanNash Co. 824,755 Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Red Robin Gourmet Burgers Inc. 314,954	22,860
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 Weight Watchers International Inc. SpartanNash Co. Chegg Inc. Abercrombie & Fitch Co. Gray Television Inc. Dillard's Inc. Class A Red Robin Gourmet Burgers Inc. 656,021 824,755 1,724,063 1,681,625 1,522,534 359,343 314,954 	22,294
SpartanNash Co. 824,755 Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. 1,522,534 Dillard's Inc. Class A 359,343 Red Robin Gourmet Burgers Inc. 314,954	21,980
** Chegg Inc. 1,724,063 Abercrombie & Fitch Co. 1,681,625 * Gray Television Inc. 1,522,534 ^ Dillard's Inc. Class A 359,343 * Red Robin Gourmet Burgers Inc. 314,954	21,924 21,411
Abercrombie & Fitch Co. 1,681,625 Gray Television Inc. Dillard's Inc. Class A Red Robin Gourmet Burgers Inc. 314,954	21,411
 Gray Television Inc. Dillard's Inc. Class A Red Robin Gourmet Burgers Inc. 314,954 	20,919
 Dillard's Inc. Class A Red Robin Gourmet Burgers Inc. 359,343 314,954 	20,859
* Red Robin Gourmet Burgers Inc. 314,954	20,730
	20,551
^ Wingstop Inc. 644,951	19,929
Liberty Media Corp-Liberty Braves 819,275	19,638
Liberty TripAdvisor Holdings Inc. Class A 1,677,476	19,459
• Denny's Corp. 1,617,140	19,034
* Quotient Technology Inc. 1,618,948	18,618
ClubCorp Holdings Inc. 1,410,809	18,482
DineEquity Inc.	18,273
PetMed Express Inc. 446,639	18,134
Guess? Inc. 1,372,539 * BJ's Restaurants Inc. 468.538	17,541
* BJ's Restaurants Inc. 468,538 World Wrestling Entertainment Inc. Class A 829,610	17,453 16,899
New Media Investment Group Inc. 1,236,921	16,674
* Caesars Entertainment Corp. 1,377,136	16,526
* Genesco Inc. 484,068	16,410
*^ Lumber Liquidators Holdings Inc. 642,961	16,113
Tile Shop Holdings Inc. 770,023	15,901
* Diplomat Pharmacy Inc. 1,051,381	15,560
Ruth's Hospitality Group Inc. 710,950	15,463
* Hertz Global Holdings Inc. 1,330,653	15,302
Rent-A-Center Inc. 1,293,490	15,160
*^ Shake Shack Inc. Class A 426,167	14,865
* Career Education Corp. 1,544,675	14,829
5r rius Corp. 404,000	14,194
* K12 Inc. 787,561	14,113
 Providence Service Corp. Laureate Education Inc. Class A 760,224 	13,911 13,327
Finish Line Inc. Class A 939,614	13,327
^ GNC Holdings Inc. Class A 1,565,589	13,314
Marcus Corp. 428,022	12,926
^ Tailored Brands Inc. 1,154,768	12,887
Weis Markets Inc. 252,042	12,279
MDC Partners Inc. Class A 1,227,921	12,156
* MarineMax Inc. 618,835	, . 00
*^ Party City Holdco Inc. 739,911	12,130
*^ Hibbett Sports Inc. 555,462	12,098 11,580
Sonic Automotive Inc. Class A 574,840	12,098

			Market Value
		Shares	(\$000)
	National CineMedia Inc.	1,500,682	11,135
	Ingles Markets Inc. Class A	327,035	10,890
*	Del Taco Restaurants Inc.	787,683	10,831
*	XO Group Inc.	614,493	10,827
	Buckle Inc.	606,942	10,804
*	Bankrate Inc.	833,126	10,706
	Entravision Communications Corp. Class A	1,621,087	10,699
	Barnes & Noble Inc.	1,395,349	10,605
*	Express Inc.	1,564,858	10,563
*	Francesca's Holdings Corp.	937,876	10,260
*	Fiesta Restaurant Group Inc.	495,034	10,222
*	Carrols Restaurant Group Inc.	821,607	10,065
	Haverty Furniture Cos. Inc.	397,190	9,969
*	Biglari Holdings Inc.	24,869	9,941
*	Angie's List Inc.	774,604	9,907
	Pier 1 Imports Inc.	1,908,219	9,904
	Cato Corp. Class A	558,022	9,816
*,^	Ascena Retail Group Inc.	4,536,143	9,753
*,^	Trupanion Inc.	422,129	9,447
*	Chuy's Holdings Inc.	398,018	9,314
	Carriage Services Inc. Class A	338,557	9,127
*	Del Frisco's Restaurant Group Inc.	547,340	8,812
*	Barnes & Noble Education Inc.	819,116	8,707
*	Regis Corp.	839,845	8,625
*	American Public Education Inc.	358,602	8,481
	Emerald Expositions Events Inc.	377,442	8,266
*	Monarch Casino & Resort Inc.	269,732	8,159
٨	Fred's Inc. Class A	877,031	8,095
*	Intrawest Resorts Holdings Inc.	340,162	8,075
*	Care.com Inc.	518,924	7,836
	News Corp. Class B	543,866	7,696
*	1-800-Flowers.com Inc. Class A	784,554	7,649
*	Clean Energy Fuels Corp.	2,969,936	7,544
*	tronc Inc.	564,652	7,278
*,^	America's Car-Mart Inc.	186,739	7,264
	RCI Hospitality Holdings Inc.	296,559	7,070
*	Titan Machinery Inc.	391,431	7,038
*	Potbelly Corp.	594,688	6,839
٨	Big 5 Sporting Goods Corp.	521,762	6,809
*	Bojangles' Inc.	416.423	6,767
*,^	Conn's Inc.	336,307	6,423
*	Chefs' Warehouse Inc.	493,357	6,414
*	Overstock.com Inc.	383,536	6,252
	Winmark Corp.	48,421	6,244
*,^	Smart & Final Stores Inc.	679,964	6,188
*,^	Carvana Co.	300,962	6,161
	Shoe Carnival Inc.	293,185	6,122
٨	Entercom Communications Corp. Class A	565,324	5,851
	Citi Trends Inc.	275,562	5,847
*,^	Sears Holdings Corp.	645,999	5,724
*	J Alexander's Holdings Inc.	466,456	5,714
*	FTD Cos. Inc.	285,230	5,705
*	At Home Group Inc.	234,379	5,459
٨	Natural Health Trends Corp.	191,872	5,344
*	Lindblad Expeditions Holdings Inc.	506,469	5,318
*	Zumiez Inc.	427,743	5,283
*	Vitamin Shoppe Inc.	445,783	5,193
*	Liberty Media Corp-Liberty Braves	214,085	5,114
*	Rubicon Project Inc.	977,163	5,023
*,^	Duluth Holdings Inc.	272,858	4,969
*	Bridgepoint Education Inc.	331,392	4,891
*,^	Zoe's Kitchen Inc.	409,167	4,873
*	Golden Entertainment Inc.	222,276	4,603
	Village Super Market Inc. Class A	176,551	4,576
	Timago Super Ivialitet IIIo. Olass A	170,001	7,570

			Market
		Shares	Value (\$000)
*	Reading International Inc. Class A	275,292	4,440
	Speedway Motorsports Inc.	242,771	4,435
*,^	Daily Journal Corp.	21,340	4,402
	CSS Industries Inc.	154,313	4,037
*,^	Sportsman's Warehouse Holdings Inc.	743,514	4,015
	Clear Channel Outdoor Holdings Inc. Class A	825,901	4,006
*	Nathan's Famous Inc. West Marine Inc.	61,089 297,630	3,849 3,825
*	Habit Restaurants Inc. Class A	297,630	3,825
*	Global Eagle Entertainment Inc.	1,047,406	3,729
*	PCM Inc.	198,139	3,715
*	Build-A-Bear Workshop Inc.	350,275	3,660
*	Kirkland's Inc.	339,649	3,492
*	Autobytel Inc.	262,951	3,316
	Saga Communications Inc. Class A	71,295	3,262
*,^	Lands' End Inc.	214,399	3,195
*	TechTarget Inc.	304,451	3,157
*	Drive Shack Inc.	997,810	3,143
*	Avid Technology Inc.	594,385	3,126
*	Fogo De Chao Inc.	224,316	3,118
	Collectors Universe Inc.	123,872	3,078
*	Ascent Capital Group Inc. Class A	199,032	3,057
*	Hemisphere Media Group Inc. Class A	246,659	2,923
	Century Casinos Inc.	396,483	2,922
*	Marchex Inc. Class B Gaia Inc. Class A	942,426 242,959	2,808 2,721
*	Liquidity Services Inc.	425,774	2,704
*	Ruby Tuesday Inc.	1,270,968	2,555
*	QuinStreet Inc.	588,314	2,453
*,^	Inspired Entertainment Inc.	186,218	2,421
	AH Belo Corp. Class A	419,625	2,308
*	Container Store Group Inc.	377,018	2,232
*	Lee Enterprises Inc.	1,110,959	2,111
*	Red Lion Hotels Corp.	280,083	2,059
*	El Pollo Loco Holdings Inc.	145,596	2,016
	YuMe Inc.	418,968	1,969
*,^	Tuesday Morning Corp.	985,841	1,873
*,^	Natural Grocers by Vitamin Cottage Inc.	217,020	1,795
*	Town Sports International Holdings Inc.	378,981	1,781
*	Townsquare Media Inc. Class A	173,867	1,780
	Blue Apron Holdings Inc. Class A	186,039	1,738
*	Travelzoo Leaf Group Ltd.	152,382 213,369	1,669 1,664
	Wayside Technology Group Inc.	82,067	1,588
*,^	Boot Barn Holdings Inc.	219,126	1,551
*	RealNetworks Inc.	354,698	1,536
	Peak Resorts Inc.	353,521	1,449
*	Destination XL Group Inc.	576,476	1,355
*	Urban One Inc.	571,863	1,287
*	Cambium Learning Group Inc.	248,408	1,259
	Salem Media Group Inc. Class A	171,361	1,217
	Tilly's Inc. Class A	119,549	1,213
٨	Stage Stores Inc.	581,485	1,209
*	EVINE Live Inc.	1,180,565	1,181
*	McClatchy Co. Class A	122,966	1,148
* ^	Stein Mart Inc. Noodles & Co. Class A	647,639 377,304	1,095
*,^	Noodles & Co. Class A Liberty Tax Inc.	277,204 77,519	1,081 1,004
*,^	Papa Murphy's Holdings Inc.	77,519 227,535	994
*	Luby's Inc.	302,362	850
*	Nevada Gold & Casinos Inc.	313,955	703
*,^	Remark Holdings Inc.	230,267	645
*,^	Kona Grill Inc.	152,775	565
*	Good Times Restaurants Inc.	153,644	545

		Shares	Market Value (\$000)
_	Destination Maternity Corn		541
	Destination Maternity Corp. Ark Restaurants Corp.	167,111 21,210	541
*	New York & Co. Inc.	373,504	515
*	Bravo Brio Restaurant Group Inc.	111,686	514
*	Full House Resorts Inc.	206,195	503
*	Profire Energy Inc.	353,189	459
*,^	Digital Turbine Inc.	430,786	444
	National American University Holdings Inc.	171,618	434
*	ONE Group Hospitality Inc.	165,077	358
*	CafePress Inc.	128,798	334
*	Dover Downs Gaming & Entertainment Inc.	298,523	331
*	Emmis Communications Corp. Class A Famous Dave's of America Inc.	109,373 86,205	315 315
*	The Street Inc.	355,603	295
٨	Live Ventures Inc.	27,874	295
*	Rush Enterprises Inc. Class B	6,949	253
*,^	Spark Networks Inc.	263,550	253
*	Harte-Hanks Inc.	242,762	250
*,^	Rave Restaurant Group Inc.	100,927	204
	Value Line Inc.	9,438	173
	Flanigan's Enterprises Inc.	5,174	150
٨	bebe stores inc	23,972	142
^	Educational Development Corp.	12,522	133
*,^	Cumulus Media Inc. Class A	257,942	116
*	Diversified Restaurant Holdings Inc.	41,720	108
*,^	Bon-Ton Stores Inc.	225,465	99
	Insignia Systems Inc.	87,240	91
*	Christopher & Banks Corp.	64,564	85
	VistaGen Therapeutics Inc. Haverty Furniture Cos. Inc. Class A	34,555 1,375	65 34
*	NTN Buzztime Inc.	4,842	33
*,^	Net Element Inc.	49,473	32
*,^	WeCast Network Inc.	16,045	28
*	SPAR Group Inc.	19,446	20
	Beasley Broadcast Group Inc. Class A	1,610	16
*,^	Sears Hometown and Outlet Stores Inc.	5,600	15
	Viacom Inc. Class A	300	11
*	MaxPoint Interactive Inc.	1,162	9
*	Universal Travel Group	42,843	7
*	Genius Brands International Inc.	1,430	5
*	Social Reality Inc.	2,782	3
*	Urban One Inc. Class A	950	2
Fin	ancials (20.4%)		75,334,894
	JPMorgan Chase & Co.	81,849,498	7,481,044
*	Berkshire Hathaway Inc. Class B	43,189,943	7,315,081
	Wells Fargo & Co.	103,615,142	5,741,315
	Bank of America Corp.	229,168,479	5,559,627
	Citigroup Inc.	63,394,487	4,239,823
	Visa Inc. Class A	42,493,554	3,985,045
	Mastercard Inc. Class A	21,900,088	2,659,766
	US Bancorp	36,988,281	1,920,432
	Goldman Sachs Group Inc.	8,152,102	1,808,951
	Chubb Ltd.	10,219,631	1,485,730
	American Express Co. Morgan Stanley	17,604,110 22,121,571	1,482,970
	PNC Financial Services Group Inc.	32,131,571 11,174,563	1,431,783 1,395,368
	American International Group Inc.	21,184,034	1,324,426
	American Tower Corporation	9,794,579	1,296,019
	Charles Schwab Corp.	27,711,528	1,190,487
	Bank of New York Mellon Corp.	22,969,347	1,171,896
	Simon Property Group Inc.	7,210,593	1,166,386
	BlackRock Inc.	2,730,248	1,153,284
	MetLife Inc.	19,871,441	1,091,737

		Market Value
	Shares	(\$000)
Prudential Financial Inc.	9,858,176	1,066,063
CME Group Inc.	7,437,686	931,496
Marsh & McLennan Cos. Inc.	11,863,444	924,874
Capital One Financial Corp.	11,046,306	912,646
Intercontinental Exchange Inc. S&P Global Inc.	13,681,364 5,953,585	901,876 869,164
BB&T Corp.	18,683,428	848,414
Crown Castle International Corp.	8,432,801	844,798
Travelers Cos. Inc.	6,416,789	811,916
Aon plc	6,040,294	803,057
Equinix Inc.	1,794,539	770,144
State Street Corp.	8,322,725	746,798
Allstate Corp. Aflac Inc.	8,378,015 9,267,437	740,952 719,894
Prologis Inc.	12,189,324	714,782
Public Storage	3,406,445	710,346
SunTrust Banks Inc.	11,268,393	639,143
Welltower Inc.	8,429,838	630,973
AvalonBay Communities Inc.	3,177,828	610,683
Progressive Corp.	13,377,687	589,822
Weyerhaeuser Co.	17,291,827	579,276
Ventas Inc.	8,169,475	567,615
Equity Residential Synchrony Financial	8,435,767 18,602,064	555,327 554,714
Discover Financial Services	8,827,119	548,959
M&T Bank Corp.	3,204,145	518,911
Northern Trust Corp.	5,019,672	487,962
KeyCorp	25,207,067	472,380
Moody's Corp.	3,746,244	455,843
Hartford Financial Services Group Inc.	8,655,686	455,029
Fifth Third Bancorp	17,325,685	449,775
Ameriprise Financial Inc.	3,525,572	448,770
Boston Properties Inc. Willis Towers Watson plc	3,537,734 2,981,473	435,212 433,685
Principal Financial Group Inc.	6,626,854	424,583
Citizens Financial Group Inc.	11,736,521	418,759
Digital Realty Trust Inc.	3,677,465	415,370
Regions Financial Corp.	28,190,263	412,705
T. Rowe Price Group Inc.	5,307,205	393,848
Essex Property Trust Inc.	1,513,948	389,493
Equifax Inc.	2,759,982	379,277
* SBA Communications Corp. Class A Vornado Realty Trust	2,789,595 3,908,373	376,316 366,996
First Republic Bank	3,908,373 3,632,278	363,591
* IHS Markit Ltd.	7,979,191	351,404
Franklin Resources Inc.	7,789,995	348,914
Lincoln National Corp.	5,141,056	347,433
Realty Income Corp.	6,275,196	346,265
HCP Inc.	10,763,687	344,007
Huntington Bancshares Inc.	24,964,685	337,523
GGP Inc. Invesco Ltd.	14,190,793 9,326,467	334,335 328,198
Host Hotels & Resorts Inc.	16,972,939	310,096
Loews Corp.	6,618,379	309,806
* Markel Corp.	306,828	299,421
Comerica Inc.	4,053,778	296,899
Annaly Capital Management Inc.	23,566,899	283,981
Mid-America Apartment Communities Inc.	2,616,107	275,685
FNF Group	5,960,296	267,200
XL Group Ltd.	6,078,758	266,250
* Arch Capital Group Ltd. TD Ameritrade Holding Corp.	2,839,243 6,076,954	264,873 261,248
Cincinnati Financial Corp.	3,590,760	260,151
* Liberty Broadband Corp.	2,905,205	252,027
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		Market
	Shares	Value (\$000)
Alexandria Real Estate Equities Inc.	2,089,966	251,778
* Berkshire Hathaway Inc. Class A	981	249,861
SL Green Realty Corp.	2,325,257	246,012
Unum Group	5,219,542	243,387
UDR Inc.	6,173,354	240,576
* E*TRADE Financial Corp. * CBRE Group Inc. Class A	6,307,844 6,569,152	239,887 239,117
Raymond James Financial Inc.	2,972,700	238,470
Arthur J Gallagher & Co.	4,101,548	234,814
Duke Realty Corp.	8,167,936	228,294
Ally Financial Inc.	10,764,381	224,976
MSCI Inc. Class A	2,094,771	215,740
Affiliated Managers Group Inc.	1,299,180	215,482
CBOE Holdings Inc.	2,343,848	214,228
Extra Space Storage Inc.	2,744,445	214,067
* SVB Financial Group	1,204,888	211,807
Western Union Co.	11,011,601	209,771
Federal Realty Investment Trust	1,654,331	209,091
Regency Centers Corp. * Alleghany Corp.	3,322,221	208,104 203,177
Zions Bancorporation	341,588 4,615,603	202,671
Iron Mountain Inc.	5,778,670	198,555
Torchmark Corp.	2,560,164	195,853
East West Bancorp Inc.	3,319,562	194,460
Macerich Co.	3,288,474	190,929
Nasdag Inc.	2,661,058	190,239
Reinsurance Group of America Inc. Class A	1,480,120	190,033
VEREIT Inc.	22,588,056	183,867
Everest Re Group Ltd.	706,089	179,763
SEI Investments Co.	3,292,577	177,075
AGNC Investment Corp.	8,163,775	173,807
Camden Property Trust	2,016,344	172,418
Signature bank	1,191,528	171,020
Colony NorthStar Inc. Class A Kimco Realty Corp.	12,075,082 9,270,508	170,138 170,114
Killroy Realty Corp.	2,252,386	169,267
MarketAxess Holdings Inc.	824,607	165,828
WP Carey Inc.	2,464,050	162,652
^ CIT Group Inc.	3,336,516	162,488
Voya Financial Inc.	4,350,026	160,472
Equity LifeStyle Properties Inc.	1,855,064	160,166
American Financial Group Inc.	1,596,541	158,648
Gaming and Leisure Properties Inc.	4,109,548	154,807
Apartment Investment & Management Co.	3,596,179	154,528
Omega Healthcare Investors Inc.	4,482,124	148,000
WR Berkley Corp.	2,110,893	146,010
American Campus Communities Inc.	3,086,552	145,994
Sun Communities Inc.	1,628,332	142,788 140,640
Lamar Advertising Co. Class A New York Community Bancorp Inc.	1,911,652 10,635,157	139,640
People's United Financial Inc.	7,899,124	139,499
Lazard Ltd. Class A	2,989,252	138,492
Liberty Property Trust	3,359,301	136,757
Healthcare Trust of America Inc. Class A	4,373,274	136,053
Forest City Realty Trust Inc. Class A	5,558,070	134,339
Starwood Property Trust Inc.	5,971,609	133,704
National Retail Properties Inc.	3,411,961	133,408
Assurant Inc.	1,271,716	131,864
Bank of the Ozarks	2,795,470	131,024
RenaissanceRe Holdings Ltd.	940,363	130,757
Axis Capital Holdings Ltd.	2,009,418	129,929
Jones Lang LaSalle Inc.	1,033,919	129,240
PacWest Bancorp	2,757,172	128,760
Douglas Emmett Inc.	3,349,451	127,983

Janua Henderson Group pile				Market
Januar Henderson Group pic			Shares	Value (\$000)
Culter/Frost Bankers Inc.	*	Janus Henderson Group plc		
Brismer Property Group Inc. 6,957,977 124,491 27,976,666 122,415 27,976,666 1				
2 Illow Group Inc. 2,497,666 122,411 Commerce Bancshares Inc. 2,151,067 122,245 Hudson Pacific Properties Inc. 3,586,164 119,582 Affiner Holding LG, Class A 2,387,608 118,459 EPR Properties 1,645,507 118,269 Eaton Vance Corp. 2,496,738 116,249 All Corp. 6,947,722 118,299 All Corp. 6,947,722 118,297 All Corp. 6,947,722 118,297 All Corp. 6,953,339,395 118,297 All Corp. 2,053,275 113,238 Brown B, Brown Inc. 2,053,275 113,236 DCT Industrial Trust Inc. 2,115,171 113,036 Sanior Housing Properties Tust 5,178,209 111,189 Du'Pont Fabros Technology Inc. 1,000,470 110,117 Webster Enneald Corp. 5,173,709 111,589 Du'Pont Fabros Technology Inc. 1,000,470 110,117 Webster Enneal Corp. 1,000,470 110,117 Web Residential Investment Corp. 1,000,470		Assured Guaranty Ltd.		
Commerce Bancahrace Inc. Hudson Pacific Properties Inc. J. \$989.613 122.045 Hudson Pacific Properties Inc. J. \$989.613 122.045 Athene Holding Ltd. Class A EFR Properties Eaton Vance Corp. J. \$987.080 118.459 EFR Properties Laton Vance Corp. J. \$987.799 118.260 Syrnous Finercial Corp. J. \$987.799 American Homeratinatal Corp. J. \$987.799 American Homeratinatal Corp. J. \$15.279 American Homeratinatal Corp. J. \$15.271 J. \$15.272 J. \$		Brixmor Property Group Inc.	6,957,977	
Hudson Pacific Properties Inc.	*	·	2,497,666	
Highwoods Properties Inc. 2,388,168 119,862 Afhene Holding Ltd. Class A 2,387,000 118,459 EPR Proporties 1,645,997 118,269 Eston Vance Corp. 2,488,739 118,240 Synovus Financial Corp. 2,488,739 118,240 Synovus Financial Corp. 2,670,488 118,145 Synovus Financial Corp. 2,670,488 118,145 Synovus Financial Corp. 2,670,488 118,145 Synovus Financial Corp. 2,535,712 113,297 American Homes 4 Rent Class A 5,033,398 113,239 Brist American Financial Corp. 2,535,712 113,205 Synovis Financial Corp. 5,713,709 111,890 Old Republic International Corp. 5,713,709 111,890 Synovis Financial Corp. 5,713,709 110,9117 Synovis Financial Corp. 6,974,093 108,517 Synovis Financial Partners Inc. 6,926,093 108,517 Synovis Financial Partners Inc. 6,926,093 106,204 Synovis Financial Financial Partners Inc. 6,926,093 106,204 Synovis Financial Partners Inc. 6,926,093 106,204 Synovis Financial Financial Financial Corp. 6,936,093 106,204 Synovis Financial Financial Corp. 6,936,093 Synovis Financial Financial Corp. 6,936,093 Synovis Financial Financial Corp. 6,936,093 Synov				
A Hane Holding Ltd. Class A 2,387,808 118,459 EPR Properties 1,645,597 118,269 Eaton Vance Corp. 2,488,739 118,269 Syrows Financial Corp. 6,924,732 115,297 American Homes 4 Rent Class A 5,093,995 113,739 First American Financial Corp. 2,535,712 113,231 Brown & R Srown Inc. 2,630,275 113,286 DCT Industrial Trust Inc. 2,115,171 113,035 Senior Housing Properties Trust 5,478,389 111,980 Old Republic International Corp. 5,713,399 111,890 Old Republic International Corp. 5,713,399 111,890 Webster Francial Corp. 2,106,118 109,891 Hospitality Properties Trust 3,763,996 109,720 New Residential Investment Corp. 9,294,093 108,517 Webster Alliance Bancorp 2,194,810 107,986 Cyrus One Inc. 1,906,158 106,268 Modical Properties Trust 8,252,028 106,204 Pinancle Financial Patters Inc. 8,252,028 106,204 Rosalogy Holdings Corp. 7,246,134 1			·	
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		LPL Financial Holdings Inc.	1,934,360	82,133
Spirit Realty Capital Inc. 11,057,041 81,933				
		Spirit Realty Capital Inc.	11,057,041	81,933

			Market
		Shares	Value (\$000)
CoreSite Realty	Corp	785,447	81,317
BankUnited Inc.	55.6.	2,408,313	81,184
MB Financial Inc		1,835,855	80,851
Sunstone Hotel		5,010,959	80,777
Radian Group In		4,931,796	80,635
Two Harbors Inv	estment Corp.	8,061,019	79,885
Primerica Inc.	. 1.0	1,044,468	79,118
Chemical Finance	lai Corp. Properties Trust	1,630,893 2,251,415	78,952 78,867
Life Storage Inc	rroperties trust	2,251,415 1,063,695	78,820
UMB Financial (Corn	1,049,866	78,593
Taubman Cente	•	1,307,144	77,840
Legg Mason Inc		2,009,994	76,701
LaSalle Hotel Pr		2,569,233	76,563
First Industrial F		2,674,963	76,557
Chimera Investr		4,099,848	76,380
Fulton Financial	·	3,995,550	75,915
MFA Financial Ir	C.	8,959,983	75,174
CoreCivic Inc. Empire State Re	olty Trust los	2,712,100	74,800
•	any Trust Inc. s Insurance Group Ltd.	3,594,540 85,878	74,659 74,596
ProAssurance C	·	1,224,115	74,426
Outfront Media	·	3,170,070	73,292
Home BancShar		2,935,159	73,085
Erie Indemnity (o. Class A	576,122	72,056
Piedmont Office	Realty Trust Inc. Class A	3,386,963	71,397
Paramount Grou	·	4,416,702	70,667
National Health		890,645	70,539
Aspen Insurance		1,401,802	69,880
Brandywine Rea		3,967,083	69,543
Valley National E Sterling Bancorp		5,793,146 2,931,240	68,417 68,151
* Stifel Financial (1,470,254	67,602
*^ Credit Acceptan	•	262,098	67,396
Selective Insura		1,332,726	66,703
Washington Fed	eral Inc.	1,997,015	66,301
Cathay General		1,742,215	66,117
Retail Properties	of America Inc.	5,372,508	65,598
DDR Corp.		7,167,095	65,006
Education Realt		1,673,918	64,864
Glacier Bancorp	inc. gage Trust Inc. Class A	1,762,222 2,037,878	64,515 64,397
BGC Partners In	<u> </u>	5,092,311	64,367
First Financial B		1,455,164	64,318
	ty Properties Inc.	994,988	63,689
Columbia Prope	ty Trust Inc.	2,831,662	63,373
FirstCash Inc.		1,080,681	63,004
 Essent Group Lt 		1,684,607	62,566
Community Ban		1,098,402	61,258
EastGroup Prop		728,462	61,045
Federated Inves		2,095,170	59,189
PS Business Par * SLM Corp.	KS INC.	446,870 5,139,518	59,161 59,104
BancorpSouth Ir	C	1,926,323	58,753
•	ncShares Inc. Class A	157,614	58,743
	Outlet Centers Inc.	2,158,501	56,078
TCF Financial Co		3,509,793	55,946
South State Cor	·	652,683	55,935
	vork Holdings Inc.	1,271,223	55,425
Hope Bancorp I		2,968,535	55,363
Great Western I		1,354,596	55,281
* HealthEquity Inc		1,097,255	54,676
STAG Industrial		1,980,641	54,666 54,577
Interactive Brok	ers aroup inc.	1,458,499	54,577

			Market
			Value
_		Shares	(\$000)
	Washington REIT	1,709,204	54,524
*	Zillow Group Inc. Class A Old National Bancorp	1,102,287 3,118,876	53,836 53,801
	Columbia Banking System Inc.	1,349,961	53,796
	CVB Financial Corp.	2,385,439	53,505
	RLJ Lodging Trust	2,676,832	53,189
	Acadia Realty Trust	1,910,493	53,112
	Evercore Partners Inc. Class A	745,616	52,566
	Urban Edge Properties	2,205,325	52,332
^	RLI Corp. Pebblebrook Hotel Trust	954,996 1,614,324	52,162 52,046
	Care Capital Properties Inc.	1,890,598	50,479
	Mack-Cali Realty Corp.	1,856,486	50,385
	First Midwest Bancorp Inc.	2,146,451	50,034
	American Equity Investment Life Holding Co.	1,901,801	49,979
	DiamondRock Hospitality Co.	4,490,364	49,169
*	HRG Group Inc.	2,741,610	48,554
	QTS Realty Trust Inc. Class A	923,991	48,352
	Retail Opportunity Investments Corp. Trustmark Corp.	2,517,445 1,490,941	48,310 47,949
	Financial Engines Inc.	1,296,028	47,435
	American National Insurance Co.	406,361	47,337
	Invitation Homes Inc.	2,187,260	47,310
	Xenia Hotels & Resorts Inc.	2,430,522	47,079
	LTC Properties Inc.	915,617	47,054
*	LendingClub Corp.	8,385,111	46,202
	International Bancshares Corp.	1,318,133	46,201
	BOK Financial Corp. Hilltop Holdings Inc.	548,957 1,744,444	46,184 45,722
*	Eagle Bancorp Inc.	720,900	45,722 45,633
	Summit Hotel Properties Inc.	2,415,542	45,050
	Potlatch Corp.	977,469	44,670
	Invesco Mortgage Capital Inc.	2,645,586	44,208
	Apollo Commercial Real Estate Finance Inc.	2,371,081	43,984
*	Genworth Financial Inc. Class A	11,637,882	43,875
	Alexander & Baldwin Inc.	1,060,223	43,872
	United Community Banks Inc. Renasant Corp.	1,549,066 980,501	43,064 42,887
	Banner Corp.	749.404	42,349
	Lexington Realty Trust	4,236,962	41,988
	Astoria Financial Corp.	2,077,840	41,868
	Rexford Industrial Realty Inc.	1,511,415	41,473
	Kennedy-Wilson Holdings Inc.	2,156,423	41,080
	Towne Bank	1,321,262	40,695
*	Capitol Federal Financial Inc. Green Dot Corp. Class A	2,862,412 1,053,263	40,675 40,582
^	Government Properties Income Trust	2,213,435	40,528
*	PRA Group Inc.	1,064,730	40,353
*	FCB Financial Holdings Inc. Class A	831,553	39,707
	Ameris Bancorp	822,664	39,652
*	Enstar Group Ltd.	199,413	39,613
*	Quality Care Properties Inc.	2,161,791	39,582
	Independent Bank Corp.	592,246	39,473
	Argo Group International Holdings Ltd.	646,656	39,187
	ServisFirst Bancshares Inc. First Merchants Corp.	1,054,920 964,838	38,916 38,729
	WesBanco Inc.	904,836	38,519
	Kite Realty Group Trust	2,022,499	38,286
	First Financial Bancorp	1,365,071	37,812
	NBT Bancorp Inc.	1,013,925	37,465
	Four Corners Property Trust Inc.	1,480,039	37,164
	Monogram Residential Trust Inc.	3,826,696	37,157
	LegacyTexas Financial Group Inc.	973,708	37,127
	Washington Prime Group Inc.	4,360,782	36,500

			Market Value
		Shares	(\$000)
	First Hawaiian Inc.	1,191,903	36,496
٨	Terreno Realty Corp.	1,077,735	36,277
^	Waddell & Reed Financial Inc. Class A American Assets Trust Inc.	1,875,549	35,410
	Kemper Corp.	897,713 909,292	35,361 35,099
	Select Income REIT	1,455,218	34,969
	Mercury General Corp.	645,091	34,835
	Provident Financial Services Inc.	1,371,457	34,808
	Simmons First National Corp. Class A	657,126	34,762
^	CBL & Associates Properties Inc.	4,118,979	34,723
	Horace Mann Educators Corp.	913,118	34,516
	Union Bankshares Corp.	1,014,911	34,405
	Northwest Bancshares Inc.	2,184,473	34,100
^	Sabra Health Care REIT Inc.	1,392,434	33,558
	Global Net Lease Inc.	1,500,794	33,378
*	Chesapeake Lodging Trust	1,363,860	33,374
*	Santander Consumer USA Holdings Inc. WSFS Financial Corp.	2,610,818	33,314
	Artisan Partners Asset Management Inc. Class A	725,071 1,070,573	32,882 32,867
	New York REIT Inc.	3,751,158	32,410
	Park National Corp.	311,160	32,274
	Westamerica Bancorporation	575,842	32,270
*	OneMain Holdings Inc. Class A	1,308,855	32,185
	CareTrust REIT Inc.	1,718,779	31,866
	CYS Investments Inc.	3,753,872	31,570
	Navigators Group Inc.	574,343	31,531
	Berkshire Hills Bancorp Inc.	895,988	31,494
*	Walker & Dunlop Inc.	644,303	31,461
*,^	Bofl Holding Inc.	1,303,783	30,926
*,^	LendingTree Inc.	179,376	30,889
	HFF Inc. Class A	858,439 1,730,463	29,848
*	Redwood Trust Inc. KCG Holdings Inc. Class A	1,739,462 1,474,948	29,640 29,410
*	MBIA Inc.	3,091,178	29,150
	Employers Holdings Inc.	688,115	29,107
	Universal Health Realty Income Trust	363,827	28,939
*	Pacific Premier Bancorp Inc.	782.322	28,868
	S&T Bancorp Inc.	803,104	28,799
	Agree Realty Corp.	617,145	28,308
	CenterState Banks Inc.	1,125,936	27,991
	Boston Private Financial Holdings Inc.	1,822,731	27,979
	Kearny Financial Corp.	1,843,286	27,373
	WisdomTree Investments Inc.	2,667,208	27,125
	PennyMac Mortgage Investment Trust	1,474,973	26,977
*,^	Black Knight Financial Services Inc. Class A	654,137	26,787
	Franklin Street Properties Corp. First Commonwealth Financial Corp.	2,409,696 2,072,615	26,699 26,281
	Tompkins Financial Corp.	332,739	26,281
	Heartland Financial USA Inc.	552,944	26,044
	Hannon Armstrong Sustainable Infrastructure Capital Inc.	1,112,747	25,449
	Lakeland Financial Corp.	550,330	25,249
	NRG Yield Inc.	1,418,584	24,967
	Beneficial Bancorp Inc.	1,658,217	24,873
	Monmouth Real Estate Investment Corp.	1,636,282	24,626
	Capital Bank Financial Corp.	644,427	24,553
^	Banc of California Inc.	1,137,337	24,453
	Capstead Mortgage Corp.	2,298,852	23,977
	Brookline Bancorp Inc.	1,635,916	23,884
^	ARMOUR Residential REIT Inc.	948,397	23,710
	AmTrust Financial Services Inc.	1,557,415	23,579
*	FNFV Group Moelis & Co. Class A	1,489,338	23,532
	AMERISAFE Inc.	605,282 411,192	23,515 23,417
	National General Holdings Corp.	1,095,136	23,417
	rvational denotal Holdings Corp.	1,030,130	25,107

			Market
			Value
		Shares	(\$000)
	Stewart Information Services Corp.	508,503	23,076
	Ramco-Gershenson Properties Trust	1,783,318	23,005
	First BanCorp National Storage Affiliates Trust	3,968,135	22,975 22,924
*	St. Joe Co.	991,946 1,222,015	22,913
	Infinity Property & Casualty Corp.	242,865	22,829
	TFS Financial Corp.	1,470,692	22,752
*,^	Encore Capital Group Inc.	564,561	22,667
	First Interstate BancSystem Inc. Class A	608,860	22,650
	State Bank Financial Corp.	833,925	22,616
	FelCor Lodging Trust Inc.	3,117,816	22,479
	Parkway Inc. Southside Bancshares Inc.	981,644 642,681	22,470 22,455
	Safety Insurance Group Inc.	328,655	22,447
	First Busey Corp.	764,759	22,423
	RE/MAX Holdings Inc. Class A	399,651	22,400
	City Holding Co.	339,501	22,363
	Sandy Spring Bancorp Inc.	532,930	21,669
*	Seacoast Banking Corp. of Florida	889,806	21,444
	Central Pacific Financial Corp.	678,102	21,340
	Independent Bank Group Inc. Nelnet Inc. Class A	358,577 451,182	21,335 21,210
	National Bank Holdings Corp. Class A	623,011	20,628
	Alexander's Inc.	48,932	20,623
	United Fire Group Inc.	465,287	20,501
*	iStar Inc.	1,696,536	20,426
	MTGE Investment Corp.	1,078,675	20,279
*	Cohen & Steers Inc.	499,386	20,245
*	Third Point Reinsurance Ltd. James River Group Holdings Ltd.	1,453,068 503,558	20,198 20,006
	Lakeland Bancorp Inc.	1,060,220	19,985
	Tier REIT Inc.	1,079,210	19,944
	Hanmi Financial Corp.	699,599	19,904
	Piper Jaffray Cos.	324,723	19,467
	Meridian Bancorp Inc.	1,146,810	19,381
^	Seritage Growth Properties Class A	455,493	19,108
	United Financial Bancorp Inc.	1,142,148	19,062
	Universal Insurance Holdings Inc. Stock Yards Bancorp Inc.	756,011 488,034	19,051 18,985
٨	Pennsylvania REIT	1,676,876	18,982
	Ladder Capital Corp. Class A	1,399,375	18,766
	Investors Real Estate Trust	3,002,255	18,644
	BancFirst Corp.	191,946	18,542
	MainSource Financial Group Inc.	549,472	18,413
	Easterly Government Properties Inc.	872,782	18,285
	Maiden Holdings Ltd. Meta Financial Group Inc.	1,641,822 203,072	18,224 18,073
	Getty Realty Corp.	719,659	18,063
	Univest Corp. of Pennsylvania	596,799	17,874
*	Customers Bancorp Inc.	630,394	17,828
*	Liberty Broadband Corp. Class A	207,597	17,810
	Heritage Financial Corp.	664,586	17,612
	Flushing Financial Corp.	623,520	17,577
	Hersha Hospitality Trust Class A First Potomac Realty Trust	948,706 1,568,122	17,561 17,422
	OceanFirst Financial Corp.	641,293	17,422
	Chatham Lodging Trust	862,138	17,332
	Virtus Investment Partners Inc.	154,023	17,089
*	HomeStreet Inc.	615,757	17,041
	Northfield Bancorp Inc.	993,069	17,031
	Enterprise Financial Services Corp.	414,084	16,895
	Saul Centers Inc. Bryn Mawr Bank Corp.	291,364 390,146	16,893 16,581
	National Western Life Group Inc. Class A	51,798	16,556
	reational vivostom Line Group IIIe. Olass A	51,780	10,000

			Market Value
		Shares	(\$000)
	Washington Trust Bancorp Inc.	319,763	16,484
	TriCo Bancshares	466,459	16,396
	Houlihan Lokey Inc. Class A TrustCo Bank Corp. NY	469,410 2,100,422	16,382 16,278
	InfraREIT Inc.	843,656	16,156
	First Bancorp	516,734	16,153
	Kinsale Capital Group Inc.	431,656	16,105
	Oritani Financial Corp.	939,384	16,016
	New Senior Investment Group Inc.	1,590,630	15,986
^	New York Mortgage Trust Inc.	2,557,237	15,906
	PJT Partners Inc. Guaranty Bancorp	388,883 574,827	15,641 15,635
	Community Trust Bancorp Inc.	357,293	15,632
	ConnectOne Bancorp Inc.	692,102	15,607
	Preferred Bank	291,443	15,583
	CoBiz Financial Inc.	894,239	15,560
*	Flagstar Bancorp Inc.	500,771	15,434
	Independence Realty Trust Inc.	1,561,924	15,416
	German American Bancorp Inc.	445,139	15,175
*	Forestar Group Inc.	883,937	15,160
	Investment Technology Group Inc. Camden National Corp.	712,652 350,137	15,137 15,024
	Diamond Hill Investment Group Inc.	75,041	14,963
*	NMI Holdings Inc. Class A	1,306,701	14,962
*	Greenlight Capital Re Ltd. Class A	714,527	14,934
	First of Long Island Corp.	519,341	14,853
	FBL Financial Group Inc. Class A	240,114	14,767
	Anworth Mortgage Asset Corp.	2,402,741	14,440
*,^	Nationstar Mortgage Holdings Inc.	798,916	14,293
	NRG Yield Inc. Class A	820,481	13,997
	Stonegate Bank Great Southern Bancorp Inc.	300,033 258,874	13,856 13,850
	Park Sterling Corp.	1,162,978	13,816
	Bridge Bancorp Inc.	414,171	13,792
	Altisource Residential Corp.	1,063,778	13,765
	Dime Community Bancshares Inc.	701,155	13,743
	QCR Holdings Inc.	288,271	13,664
*	Horizon Bancorp	517,691	13,641
*	INTL. FCStone Inc. CU Bancorp	358,904 373,210	13,552 13,492
	State National Cos. Inc.	722,990	13,492
	UMH Properties Inc.	776,666	13,242
	Armada Hoffler Properties Inc.	998,346	12,929
	Gladstone Commercial Corp.	590,939	12,877
*	TriState Capital Holdings Inc.	510,129	12,855
	Pacific Continental Corp.	502,211	12,831
	Heritage Commerce Corp.	922,989	12,719
	Ashford Hospitality Trust Inc. Peoples Bancorp Inc.	2,091,670 394,715	12,717 12,682
	One Liberty Properties Inc.	530,877	12,438
	AG Mortgage Investment Trust Inc.	671,785	12,294
	Urstadt Biddle Properties Inc. Class A	616,330	12,203
	CatchMark Timber Trust Inc. Class A	1,073,044	12,200
^	Live Oak Bancshares Inc.	470,108	11,377
	Mercantile Bank Corp.	361,168	11,370
*	Preferred Apartment Communities Inc. Class A	721,243	11,360
*	Franklin Financial Network Inc.	274,705 492,944	11,332
	Fidelity Southern Corp. Waterstone Financial Inc.	492,944 591,206	11,269 11,144
	First Financial Corp.	233,216	11,031
^	CorEnergy Infrastructure Trust Inc.	323,833	10,878
	Greenhill & Co. Inc.	533,846	10,730
	Peapack Gladstone Financial Corp.	340,026	10,639
*,^	Republic First Bancorp Inc.	1,143,684	10,579

		Market Value
	Shares	(\$000)
Virtu Financial Inc. Class A	599,207	10,576
First Defiance Financial Corp.	200,600	10,568
OFG Bancorp	1,046,533	10,465
NexPoint Residential Trust Inc.	420,244	10,460
Independent Bank Corp. Allegiance Bancshares Inc.	480,432 272,793	10,449 10,448
Midland States Bancorp Inc.	307,657	10,313
Southwest Bancorp Inc.	401,998	10,313
Marcus & Millichap Inc.	388,802	10,249
National Commerce Corp.	259,060	10,246
MoneyGram International Inc.	593,533	10,238
Western Asset Mortgage Capital Corp.	991,945	10,217
First Foundation Inc.	617,171	10,140
Enova International Inc.	676,707	10,049
Community Healthcare Trust Inc.	392,183	10,036
Federal Agricultural Mortgage Corp.	154,969	10,026
Westwood Holdings Group Inc.	176,429	10,002
Cowen Inc. Class A	615,453	10,001
Triumph Bancorp Inc.	399,040	9,796
Blue Hills Bancorp Inc.	544,982	9,755
Cedar Realty Trust Inc. Green Bancoro Inc.	2,005,227 500.347	9,725 9,707
Fidelity & Guaranty Life	312,582	9,707
Whitestone REIT	787,349	9,645
Financial Institutions Inc.	323,192	9,631
World Acceptance Corp.	127,898	9,581
Bar Harbor Bankshares	306,499	9,446
HomeTrust Bancshares Inc.	383,198	9,350
Arbor Realty Trust Inc.	1,114,582	9,296
OneBeacon Insurance Group Ltd. Class A	505,691	9,219
Carolina Financial Corp.	284,889	9,208
Bank Mutual Corp.	994,266	9,098
MedEquities Realty Trust Inc.	713,540	9,005
Arrow Financial Corp.	284,232	8,996
HCI Group Inc.	190,162	8,934
EZCORP Inc. Class A	1,150,290	8,857
Ambac Financial Group Inc.	507,938	8,813 8,717
Clifton Bancorp Inc. MidWestOne Financial Group Inc.	527,368 254,465	8,624
PICO Holdings Inc.	492,175	8,613
State Auto Financial Corp.	332,968	8,567
United Community Financial Corp.	1,025,478	8,522
Global Indemnity Ltd.	217,960	8,450
1st Source Corp.	176,233	8,449
Arlington Asset Investment Corp. Class A	614,393	8,399
PennyMac Financial Services Inc. Class A	502,176	8,386
Atlantic Capital Bancshares Inc.	440,076	8,361
Access National Corp.	311,117	8,251
Heritage Insurance Holdings Inc.	630,495	8,209
Bancorp Inc.	1,073,489	8,137
Veritex Holdings Inc.	306,375	8,067
City Office REIT Inc. RMR Group Inc. Class A	629,538	7,995
Nicolet Bankshares Inc.	164,185 144,542	7,988
Ares Commercial Real Estate Corp.	598,302	7,908 7,832
Ashford Hospitality Prime Inc.	760,304	7,824
Bank of Marin Bancorp	126,680	7,797
Farmers National Banc Corp.	535,270	7,761
eHealth Inc.	412,496	7,755
NI Holdings Inc.	431,321	7,712
People's Utah Bancorp	287,169	7,696
First Community Bancshares Inc.	280,081	7,660
CNB Financial Corp.	316,906	7,596
First Connecticut Bancorp Inc.	294,683	7,559

			Market
		Shares	Value (\$000)
	Opus Bank	311,400	7,536
^	Orchid Island Capital Inc.	741,274	7,309
	American National Bankshares Inc.	197,303	7,290
	Dynex Capital Inc.	1,022,411	7,259
^	Farmland Partners Inc.	809,018	7,233
	Bluerock Residential Growth REIT Inc. Class A	555,038	7,154
*,^	Citizens Inc. Class A Tejon Ranch Co.	967,030	7,137 7,069
	West Bancorporation Inc.	342,493 298,686	7,069
	United Insurance Holdings Corp.	447,288	7,036
	Jernigan Capital Inc.	314,580	6,921
	Charter Financial Corp.	380,269	6,845
*	HarborOne Bancorp Inc.	342,804	6,842
	Timberland Bancorp Inc.	270,330	6,831
*	Pacific Mercantile Bancorp	767,710	6,756
	Enterprise Bancorp Inc.	189,931	6,750
*	Regional Management Corp.	279,045	6,594
	Cherry Hill Mortgage Investment Corp.	351,292	6,488
	EMC Insurance Group Inc.	233,457	6,485
	WashingtonFirst Bankshares Inc.	186,872	6,453
*	FRP Holdings Inc.	139,782	6,451
*	Sierra Bancorp Health Insurance Innovations Inc. Class A	262,042 273,011	6,433 6,416
	Prudential Bancorp Inc.	353,203	6,414
	Xenith Bankshares Inc.	206,345	6,409
	Sutherland Asset Management Corp.	428,504	6,363
*	FB Financial Corp.	175,126	6,338
	Ames National Corp.	205,571	6,290
	Farmers Capital Bank Corp.	161,993	6,245
*,^	PCSB Financial Corp.	357,922	6,106
*	Equity Bancshares Inc. Class A	197,590	6,054
*	CardConnect Corp.	389,689	5,865
*	Ocwen Financial Corp.	2,158,610	5,807
*	WMIH Corp.	4,644,600	5,806
	Central Valley Community Bancorp Republic Bancorp Inc. Class A	256,265 157,637	5,679 5,628
^	Investar Holding Corp.	243,221	5,570
	MBT Financial Corp.	570.737	5,536
	Resource Capital Corp.	536,046	5,452
	Baldwin & Lyons Inc.	220,225	5,395
	Peoples Financial Services Corp.	123,373	5,395
*,^	Altisource Portfolio Solutions SA	247,041	5,390
	Hingham Institution for Savings	29,578	5,381
	National Bankshares Inc.	129,542	5,285
	Consolidated-Tomoka Land Co.	92,793	5,285
*	Southern First Bancshares Inc.	139,001	5,150
^	First Bancshares Inc.	186,215	5,140
	Sun Bancorp Inc.	207,148	5,106
	Old Line Bancshares Inc.	181,094	5,103
	KKR Real Estate Finance Trust Inc. First Mid-Illinois Bancshares Inc.	235,876 148,081	5,071 5,070
	Shore Bancshares Inc.	305,032	5,018
	Western New England Bancorp Inc.	493,489	5,009
	NewStar Financial Inc.	475,565	4,993
	Old Second Bancorp Inc.	431,741	4,987
	Capital City Bank Group Inc.	242,287	4,947
	Bank of Commerce Holdings	442,890	4,894
	Codorus Valley Bancorp Inc.	170,726	4,849
*	Safeguard Scientifics Inc.	406,125	4,833
	GAIN Capital Holdings Inc.	773,941	4,822
	Orrstown Financial Services Inc.	210,135	4,802
*	First Northwest Bancorp	302,712	4,774
	Southern National Bancorp of Virginia Inc.	266,340 450,473	4,688
	Pzena Investment Management Inc. Class A	459,472	4,668

			Market
		Shares	Value (\$000)
	Macatawa Bank Corp.	487,657	4,652
	Citizens & Northern Corp.	199,597	4,643
^	Civista Bancshares Inc.	222,171	4,639
	Federated National Holding Co.	287,862	4,606
*	First Community Financial Partners Inc.	355,182	4,582
	Winthrop Realty Trust	562,609	4,510
	Territorial Bancorp Inc. Ellington Residential Mortgage REIT	144,147 303,091	4,496 4,443
	First Bancorp Inc.	164,196	4,443
*	AV Homes Inc.	220,625	4,424
	Tiptree Inc.	626,694	4,418
	First Business Financial Services Inc.	191,192	4,413
*	Ladenburg Thalmann Financial Services Inc.	1,808,010	4,412
٨	Wheeler REIT Inc.	428,959	4,380
	RAIT Financial Trust	1,990,130	4,358
	Marlin Business Services Corp.	171,356	4,310
	Owens Realty Mortgage Inc.	253,158	4,294
	Investors Title Co.	22,132	4,281
	Penns Woods Bancorp Inc.	103,519	4,263
٨	Global Medical REIT Inc.	475,739	4,253
	Great Ajax Corp.	299,485 142,314	4,187 4,184
	Stratus Properties Inc. BankFinancial Corp.	279,782	4,184 4,174
	First Internet Bancorp	148,164	4,156
	LCNB Corp.	201,639	4,033
	Reis Inc.	185,335	3,938
	Southern Missouri Bancorp Inc.	121,688	3,926
	Home Bancorp Inc.	92,296	3,924
*	BSB Bancorp Inc.	133,849	3,915
	ESSA Bancorp Inc.	256,659	3,778
	Canadian Imperial Bank of Commerce	46,144	3,745
	MidSouth Bancorp Inc.	312,673	3,674
	Parke Bancorp Inc.	162,298	3,635
	ACNB Corp.	119,083	3,632
*,^	Bear State Financial Inc. Impac Mortgage Holdings Inc.	383,531 238,376	3,628 3,607
,	Silvercrest Asset Management Group Inc. Class A	266,496	3,584
*	Maui Land & Pineapple Co. Inc.	174,732	3,547
*	Atlas Financial Holdings Inc.	237,784	3,543
	Northrim BanCorp Inc.	116,478	3,541
	Unity Bancorp Inc.	199,004	3,423
*	SmartFinancial Inc.	139,194	3,324
	First Bank	282,688	3,293
*	On Deck Capital Inc.	705,079	3,286
*	Entegra Financial Corp.	144,122	3,279
	First Financial Northwest Inc.	201,997	3,258
	Clipper Realty Inc.	262,100	3,234
	Donegal Group Inc. Class A	202,960	3,227
	First South Bancorp Inc. Kingstone Cos. Inc.	193,000 207,138	3,192 3,169
	Sotherly Hotels Inc.	464,390	3,149
*,^	Paragon Commercial Corp.	59,358	3,114
,	Associated Capital Group Inc. Class A	89,830	3,054
	Chemung Financial Corp.	73,238	2,994
	MutualFirst Financial Inc.	82,894	2,959
*	UCP Inc.	267,715	2,931
	Century Bancorp Inc. Class A	45,204	2,875
*	Trinity Place Holdings Inc.	401,380	2,854
	BCB Bancorp Inc.	183,355	2,805
*	Malvern Bancorp Inc.	116,688	2,795
	Summit Financial Group Inc.	126,095	2,774
	Five Oaks Investment Corp.	568,330 133,730	2,773
	Premier Financial Bancorp Inc.	133,738	2,756
	Provident Financial Holdings Inc.	140,062	2,696

			Market Value
		Shares	(\$000)
	Commerce Union Bancshares Inc.	111,952	2,672
	Bankwell Financial Group Inc.	84,857	2,650
	GAMCO Investors Inc. Class A Gladstone Land Corp.	89,101 225,120	2,637 2,627
	C&F Financial Corp.	55,655	2,627
*	Safety Income and Growth Inc.	134,000	2,566
	SI Financial Group Inc.	157,047	2,528
	FS Bancorp Inc.	56,177	2,507
	Independence Holding Co.	121,498	2,485
*	MSB Financial Corp.	139,627	2,450
^	Innovative Industrial Properties Inc.	145,140	2,431
	United Bancorp Inc.	194,803	2,386
	HopFed Bancorp Inc.	161,415	2,374
	Riverview Bancorp Inc.	355,500	2,361
	Federal Agricultural Mortgage Corp. Class A	38,986	2,320
	Northeast Bancorp	113,368	2,307
	Oppenheimer Holdings Inc. Class A	139,482	2,287
	County Bancorp Inc.	92,456	2,219
*	1st Constitution Bancorp Hallmark Financial Services Inc.	124,717 190,242	2,214 2,144
	Peoples Bancorp of North Carolina Inc.	67,490	2,144
	DNB Financial Corp.	61,338	2,104
	Blue Capital Reinsurance Holdings Ltd.	108.741	1,990
*	Consumer Portfolio Services Inc.	436,157	1,985
*	Atlantic Coast Financial Corp.	246,134	1,967
*	Select Bancorp Inc.	159,453	1,949
^	First Guaranty Bancshares Inc.	70,724	1,927
	American River Bankshares	130,024	1,887
	Evans Bancorp Inc.	46,053	1,840
*	Bay Bancorp Inc.	234,997	1,798
	Global Self Storage Inc.	359,366	1,786
^	Sussex Bancorp	70,873	1,754
	Summit State Bank	126,542	1,645
*	ASB Bancorp Inc.	37,401	1,644
	Union Bankshares Inc.	34,526	1,640
^	Greene County Bancorp Inc. Two River Bancorp	57,415 83.523	1,562
*	Westbury Bancorp Inc.	75,189	1,553 1,531
*	Ashford Inc.	29,095	1,458
^	CPI Card Group Inc.	510,300	1,454
*	Coastway Bancorp Inc.	69,946	1,441
*	Provident Bancorp Inc.	63,594	1,431
	CB Financial Services Inc.	50,921	1,329
*	Sunshine Bancorp Inc.	60,594	1,291
*,^	Altisource Asset Management Corp.	13,265	1,211
*	Performant Financial Corp.	578,945	1,210
	Citizens Community Bancorp Inc.	84,902	1,187
	First US Bancshares Inc.	102,757	1,153
*	Nicholas Financial Inc.	121,713	1,123
	Urstadt Biddle Properties Inc.	64,362	1,110
	Medley Management Inc. Class A	170,798	1,110
	AmeriServ Financial Inc.	261,840	1,087
	PB Bancorp Inc.	95,484	1,012
*	Manhattan Bridge Capital Inc. Security National Financial Corp. Class A	169,279 151,600	1,007 970
*	Anchor Bancorp Inc.	35,152	888
	Mackinac Financial Corp.	63,352	887
	SB Financial Group Inc.	51,939	882
	First Savings Financial Group Inc.	13,900	761
*	Conifer Holdings Inc.	103,597	741
	Bancorp of New Jersey Inc.	44,083	736
*	1347 Property Insurance Holdings Inc.	91,546	732
	Plumas Bancorp	34,356	732
	Hennessy Advisors Inc.	46,256	702

			Market Value
		Shares	(\$000)
*	Byline Bancorp Inc.	32,078	643
	Fifth Street Asset Management Inc.	130,346	632
*,^	Transcontinental Realty Investors Inc.	23,100	621
*	JW Mays Inc.	16,455	584
	California First National Bancorp	29,198	550
*,^	Capstar Financial Holdings Inc.	30,373	539
*,^	Walter Investment Management Corp.	551,462	522
	Eagle Bancorp Montana Inc.	27,475	497
*	First Acceptance Corp.	281,104	320
	Stewardship Financial Corp.	30,870	293
	US Global Investors Inc. Class A	188,652	289
*	Pathfinder Bancorp Inc.	17,572	277
*	National Holdings Corp.	93,836	261
	IZEA Inc.	136,461	261
*	Wellesley Bank	9,433	260
	Jason Industries Inc. WVS Financial Corp.	189,620	245
*		11,313	182
-	InterGroup Corp.	6,301	164 150
*,^	Oxbridge Re Holdings Ltd.	26,562	
*,^	ZAIS Group Holdings Inc.	62,902	147
*,/\	Income Opportunity Realty Investors Inc.	12,550	118
	Royal Bancshares of Pennsylvania Inc. Sound Financial Bancorp Inc.	26,140	111
	Poage Bankshares Inc.	3,546 5,438	108 104
	Institutional Financial Markets Inc.		104
*	Institutional Financial Markets Inc. Intersections Inc.	85,239 20,974	99
*	Asta Funding Inc.	11,266	92
	Manning & Napier Inc.	20,555	89
*,^	Connecture Inc.	131,451	81
*	RMG Networks Holding Corp.	112,292	74
*	National Holdings Corp. Warrants Exp. 01/18/2022	92,151	53
*	Randolph Bancorp Inc.	2,954	49
	Atlantic American Corp.	11,780	44
*	Elevate Credit Inc.	4,500	36
*	HV Bancorp Inc.	1,300	19
*,^	Global Brokerage Inc.	8,967	18
*	ITUS Corp.	10,380	12
	Porter Bancorp Inc.	1,132	12
*,^	LM Funding America Inc.	1,700	7
	Baldwin & Lyons Inc. Class A Shares	225	5
*	Equitable Financial Corp.	263	3
	Elmira Savings Bank	100	2
	Southwest Georgia Financial Corp.	100	2
	GWG Holdings Inc.	100	1
	NorthStar Realty Europe Corp.	22	_
11-	- IAL Come (42 40/)	_	118,292,961
пеа	alth Care (13.1%) Johnson & Johnson	62,059,387	8 JUU 03E
	Pfizer Inc.		8,209,836 4,616,240
		137,428,989	4,616,240 4,115,074
	UnitedHealth Group Inc. Merck & Co. Inc.	22,193,256 62,996,595	4,115,074 4,037,452
		· · ·	
	Amgen Inc. Medtronic plc	16,927,358 31,568,346	2,915,399
	AbbVie Inc.	31,568,346	2,801,691 2,656,380
*	Celgene Corp.	17,968,099	2,333,517
	Gilead Sciences Inc.	30,072,798	2,333,517
	Bristol-Myers Squibb Co.	37,936,672	2,120,553
	Abbott Laboratories	37,936,672 39,971,491	1,943,014
	Eli Lilly & Co.	22,866,736	1,881,932
	Allergan plc	7,732,756	1,879,756
	Thermo Fisher Scientific Inc.	9,028,704	1,575,238
*	Biogen Inc.	4,891,271	1,327,295
	Aetna Inc.	7,674,024	1,165,147
	Anthem Inc.	6,092,345	1,146,153
		0,002,040	1,140,100

Becton Dickinson and Co.	Shares	
Becton Dickinson and Co.		(\$000)
	5,204,627	1,015,475
Cigna Corp.	5,894,262	986,641
Stryker Corp.	6,894,741	956,852
* Regeneron Pharmaceuticals Inc.	1,801,569	884,823
Boston Scientific Corp.	31,553,760 13,674,358	874,670 872,971
* Express Scripts Holding Co. Humana Inc.	3,342,472	804,266
* Intuitive Surgical Inc.	858,659	803.164
* Vertex Pharmaceuticals Inc.	5,730,320	738,466
Zoetis Inc.	11,302,484	705,049
Baxter International Inc.	11,258,475	681,588
* Alexion Pharmaceuticals Inc.	4,910,278	597,434
Zimmer Biomet Holdings Inc.	4,634,651	595,089
HCA Healthcare Inc.	6,785,378	591,685
* Illumina Inc.	3,363,828	583,691
* Edwards Lifesciences Corp.	4,860,965	574,761
CR Bard Inc.	1,664,557	526,183
* Incyte Corp.	4,004,883	504,255
* Mylan NV	11,703,262	454,321
Laboratory Corp. or Arnerica Flordings	2,363,736	364,346
* BioMarin Pharmaceutical Inc.	4,004,576	363,696
Quest Diagnostics Inc. Dentsply Sirona Inc.	3,147,062 5,305,313	349,827 343,997
* Henry Schein Inc.	1,823,494	333,736
* IDEXX Laboratories Inc.	2,023,639	326.656
* Waters Corp.	1,754,979	322,635
* Centene Corp.	3,759,806	300,333
* Quintiles IMS Holdings Inc.	3,284,237	293,939
* Hologic Inc.	6,440,687	292,278
Cooper Cos. Inc.	1,127,375	269,916
ResMed Inc.	3,258,380	253,730
Universal Health Services Inc. Class B	2,053,884	250,738
* Align Technology Inc.	1,664,508	249,876
Perrigo Co. plc	3,131,515	236,492
* DaVita Inc.	3,618,162	234,312
* Varian Medical Systems Inc.	2,129,940	219,789
Teleflex Inc.	1,032,633	214,540
* Alkermes plc * Jazz Pharmaceuticals plc	3,512,057 1,309,147	203,594 203,572
* WellCare Health Plans Inc.	1,020,772	183,290
* Envision Healthcare Corp.	2,697,151	169,030
* Exelixis Inc.	6,719,048	165,490
West Pharmaceutical Services Inc.	1,698,570	160,549
STERIS plc	1,953,350	159,198
* Alnylam Pharmaceuticals Inc.	1,886,133	150,438
* Bioverativ Inc.	2,487,662	149,683
* DexCom Inc.	1,982,758	145,039
* Ionis Pharmaceuticals Inc.	2,844,307	144,690
* ABIOMED Inc.	951,131	136,297
 United Therapeutics Corp. 	1,028,968	133,488
MEDNAX Inc.	2,148,036	129,677
* TESARO Inc.	866,397	121,174
Hill-Rom Holdings Inc.	1,507,070	119,978
*A Kite Pharma Inc.	1,102,517	114,298
 Seattle Genetics Inc. Charles River Laboratories International Inc. 	2,129,469 1,082,748	110,179 109,520
* Bluebird Bio Inc.	1,082,748	109,520
* Bio-Rad Laboratories Inc. Class A	476,795	107,903
* Mallinckrodt plc	2,343,026	104,991
* PAREXEL International Corp.	1,162,641	101,045
Bio-Techne Corp.	855,215	100,488
* Alere Inc.	1,994,163	100,087
* Masimo Corp.	1,063,460	96,966
* Catalent Inc.	2,739,952	96,172

			Market
		Shares	Value (\$000)
*,^	Exact Sciences Corp.	2,716,750	96,091
*	Neurocrine Biosciences Inc.	2,072,680	95,343
*	Clovis Oncology Inc.	996,580	93,310
	HealthSouth Corp.	1,916,145	92,741
	Patterson Cos. Inc.	1,903,449	89,367
*,^	Acadia Healthcare Co. Inc.	1,804,121	89,088
*	NuVasive Inc. Integra LifeSciences Holdings Corp.	1,156,864	88,986 75,331
	Healthcare Services Group Inc.	1,379,948 1,589,481	75,221 74,435
*	Portola Pharmaceuticals Inc.	1,304,399	73,268
*	INC Research Holdings Inc. Class A	1,238,213	72,435
*	PRA Health Sciences Inc.	929,924	69,754
*	Nektar Therapeutics Class A	3,567,770	69,750
	Bruker Corp.	2,412,575	69,579
*	Insulet Corp.	1,342,214	68,869
*	Akorn Inc.	2,030,763	68,112
*	Molina Healthcare Inc.	976,848	67,578
*	Wright Medical Group NV	2,378,908	65,396
*	Prestige Brands Holdings Inc.	1,225,066	64,696
*	VWR Corp.	1,956,464	64,583
*	Puma Biotechnology Inc.	729,666	63,773
*,^	ACADIA Pharmaceuticals Inc.	2,254,536	62,879
*	Brookdale Senior Living Inc.	4,269,537	62,805
*	LifePoint Health Inc.	926,316	62,202
	Sage Therapeutics Inc.	780,406	62,152
*	Cantel Medical Corp. Ironwood Pharmaceuticals Inc. Class A	771,121 3,139,608	60,078 59,276
*,^	Medicines Co.	1,541,764	58,602
*	Neogen Corp.	844,489	58,363
*,^	Ultragenyx Pharmaceutical Inc.	916,788	56,942
*,^	Juno Therapeutics Inc.	1,878,898	56,160
*	Ligand Pharmaceuticals Inc.	459,090	55,734
*,^	Penumbra Inc.	616,562	54,103
*	ICU Medical Inc.	311,736	53,774
*	Globus Medical Inc.	1,566,628	51,934
*	Endo International plc	4,609,883	51,492
*,^	OPKO Health Inc.	7,772,310	51,142
*	Agios Pharmaceuticals Inc.	935,947	48,154
*,^	Intercept Pharmaceuticals Inc.	395,171	47,843
*	Supernus Pharmaceuticals Inc.	1,096,216	47,247
	Haemonetics Corp. FibroGen Inc.	1,192,331	47,085
	Owens & Minor Inc.	1,375,647 1,379,158	44,433 44,395
*	Horizon Pharma plc	3,709,594	44,033
*	Sarepta Therapeutics Inc.	1,273,474	42,929
*	Halyard Health Inc.	1,088,419	42,753
*,^	Nevro Corp.	570,980	42,498
*,^	Myriad Genetics Inc.	1,639,641	42,368
*,^	Radius Health Inc.	935,082	42,294
*	Aerie Pharmaceuticals Inc.	789,620	41,495
*	Pacira Pharmaceuticals Inc.	869,121	41,457
*	Merit Medical Systems Inc.	1,083,219	41,325
*	Loxo Oncology Inc.	504,562	40,461
*	Magellan Health Inc.	544,052	39,661
*	Spectranetics Corp.	990,824	38,048
*	Select Medical Holdings Corp.	2,478,650	38,047
*	Amedisys Inc.	603,800	37,925
*	NxStage Medical Inc.	1,502,872	37,677
*,^	MiMedx Group Inc.	2,505,750	37,511
*,^	Tenet Healthcare Corp.	1,916,893	37,073
*,^	Inogen Inc. Theravance Biopharma Inc.	384,438 916,922	36,683 36,530
*	HMS Holdings Corp.	1,934,818	35,794
*,^	Avexis Inc.	432,499	35,534
,	A WOMO IIIO.	402,400	55,554

			Market Value
		Shares	(\$000)
*	Repligen Corp.	849,053	35,185
*	Blueprint Medicines Corp.	694,112	35,171
*,^	Halozyme Therapeutics Inc.	2,717,336	34,836
*,^	Amicus Therapeutics Inc.	3,455,463	34,797
*	Omnicell Inc.	794,413	34,239
*,^	Spark Therapeutics Inc.	564,616	33,730
*,^	Intrexon Corp.	1,367,682	32,947
*	Array BioPharma Inc.	3,887,954	32,542
*	Tivity Health Inc.	805,367	32,094
*,^	Teladoc Inc.	873,542	30,312
	CONMED Corp.	574,226	29,251
*	Varex Imaging Corp.	853,888	28,861
*	Emergent BioSolutions Inc.	847,248	28,730
*	Impax Laboratories Inc.	1,772,406	28,536
*	Momenta Pharmaceuticals Inc.	1,648,031	27,852
*	Natus Medical Inc.	724,782	27,034
	Community Health Systems Inc.	2,675,536	26,648
*,^	Novocure Ltd.	1,526,608	26,410
	Abaxis Inc.	491,835	26,077
*	Insmed Inc.	1,458,382	25,026
*	Corcept Therapeutics Inc.	2,109,321	24,890
*	Innoviva Inc.	1,936,268	24,784
	Ensign Group Inc.	1,135,257	24,715
*	LHC Group Inc.	353,597	24,006
	Kindred Healthcare Inc.	2,044,071	23,813
*	Acceleron Pharma Inc.	779,847	23,700
*,^	Global Blood Therapeutics Inc.	846,836	23,161
*	Acorda Therapeutics Inc.	1,164,634	22,943
*	Cardiovascular Systems Inc.	701,789	22,619
*	Dermira Inc.	754,744	21,993
*,^	Eagle Pharmaceuticals Inc.	278,391	21,962
*	OraSure Technologies Inc.	1,249,716	21,570
*,^	Synergy Pharmaceuticals Inc.	4,821,363	21,455
	Analogic Corp.	291,636	21,187
	Glaukos Corp.	509,465	21,128
*,^	Immunomedics Inc.	2,359,716	20,836
*	BioTelemetry Inc.	615,665	20,594
*	Atrion Corp.	31,920	20,534
	K2M Group Holdings Inc.	822,768	20,043
	Xencor Inc.	935,836	19,756
*,^	TherapeuticsMD Inc.	3,712,990	19,567
	Lexicon Pharmaceuticals Inc.	1,162,838	19,129
*,^	Omeros Corp.	954,328	18,996
*,^	Accelerate Diagnostics Inc.	691,984	18,926
	Luminex Corp.	892,632	18,852
	Five Prime Therapeutics Inc.	620,352	18,679
*	PharMerica Corp.	706,366	18,542
*	Orthofix International NV AtriCure Inc.	391,151	18,181
*		744,556	18,056
*,^	Retrophin Inc.	925,806 386,431	17,951
	Esperion Therapeutics Inc.	·	17,884
*,^	ZIOPHARM Oncology Inc.	2,874,609	17,880
*	Vanda Pharmaceuticals Inc. Intersect ENT Inc.	1,089,275 622,184	17,755
*		·	17,390
*,^	Almost Family Inc.	275,413 918,881	16,979
*	PTC Therapeutics Inc.	,	16,843
* ^	Sangamo Therapeutics Inc.	1,882,862	16,569
*,^	Heron Therapeutics Inc.	1,191,562	16,503
	Quidel Corp.	603,265	16,373
*,^	Lannett Co. Inc.	796,103	16,241
*,^	Achaogen Inc.	747,253	16,238
-	Anika Therapeutics Inc.	327,326	16,150
	US Physical Therapy Inc.	266,647	16,106
	Meridian Bioscience Inc.	1,013,210	15,958

		Market Value
	Shares	(\$000)
^ Epizyme Inc.	1,035,042	15,629
HealthStream Inc.	592,324	15,590
^ ImmunoGen Inc.	2,188,806	15,562
^ AMAG Pharmaceuticals Inc. Depomed Inc.	837,344 1,419,297	15,407 15,243
^ Albany Molecular Research Inc.	700,296	15,243
Genomic Health Inc.	453,889	14,774
National HealthCare Corp.	208,647	14,635
Amphastar Pharmaceuticals Inc.	813,544	14,530
NeoGenomics Inc.	1,620,460	14,519
^ Keryx Biopharmaceuticals Inc.	1,973,966	14,272
Heska Corp.	139,222	14,210
^ La Jolla Pharmaceutical Co.	466,728	13,895
CryoLife Inc.	696,051	13,886
Enanta Pharmaceuticals Inc.	383,691	13,805 13,785
GenMark Diagnostics Inc. ^ Aimmune Therapeutics Inc.	1,165,229 664,652	13,785
Inovio Pharmaceuticals Inc.	1,676,562	13,144
Cytokinetics Inc.	1,084,752	13,126
Spectrum Pharmaceuticals Inc.	1,758,156	13,098
^ Revance Therapeutics Inc.	494,709	13,060
AngioDynamics Inc.	803,506	13,025
^ Foundation Medicine Inc.	324,933	12,916
MacroGenics Inc.	730,516	12,791
^ Alder Biopharmaceuticals Inc.	1,072,493	12,280
^ Aclaris Therapeutics Inc.	451,371	12,241
SciClone Pharmaceuticals Inc.	1,105,703	12,163
Lantheus Holdings Inc.	684,542	12,082
Paratek Pharmaceuticals Inc. Achillion Pharmaceuticals Inc.	492,886	11,879
REGENXBIO Inc.	2,585,040 590,212	11,865 11,657
Flexion Therapeutics Inc.	568,245	11,490
^ Editas Medicine Inc.	672,971	11,292
AxoGen Inc.	672,912	11,271
Arena Pharmaceuticals Inc.	658,993	11,117
Surgery Partners Inc.	488,346	11,110
Capital Senior Living Corp.	723,880	11,010
^ TG Therapeutics Inc.	1,091,056	10,965
Coherus Biosciences Inc.	755,705	10,844
Ignyta Inc.	1,046,227	10,828
Versartis Inc.	614,922	10,730
Progenics Pharmaceuticals Inc. BioCryst Pharmaceuticals Inc.	1,579,374	10,724 10,715
 BioCryst Pharmaceuticals Inc. CorVel Corp. 	1,927,066 225,577	10,715
^ Geron Corp.	3,853,324	10,704
Akebia Therapeutics Inc.	740,643	10,643
LeMaitre Vascular Inc.	340,624	10,634
Dynavax Technologies Corp.	1,091,232	10,530
^ iRhythm Technologies Inc.	247,534	10,518
Enzo Biochem Inc.	943,216	10,413
^ Antares Pharma Inc.	3,231,525	10,406
^ Calithera Biosciences Inc.	698,554	10,374
^ Teligent Inc.	1,080,767	9,889
^ Endologix Inc.	2,027,599	9,854
ANI Pharmaceuticals Inc. ^ lovance Biotherapeutics Inc.	205,095	9,598
Invacare Corp.	1,304,215 718,874	9,586 9,489
Triple-S Management Corp. Class B	533,506	9,489
Sucampo Pharmaceuticals Inc. Class A	858,104	9,022
Intra-Cellular Therapies Inc. Class A	724,519	8,999
Accuray Inc.	1,855,326	8,813
^ Cara Therapeutics Inc.		
Cara merapeutics inc.	569,016	8,757
Rockwell Medical Inc. Karyopharm Therapeutics Inc.	569,016 1,099,664 935,540	8,757 8,720 8,467

			Market
		Shares	Value (\$000)
*	PDL BioPharma Inc.	3,408,957	8,420
*	Surmodics Inc.	298,673	8,408
*	Rigel Pharmaceuticals Inc.	3,027,777	8,266
*	Otonomy Inc.	432,061	8,144
*,^	Insys Therapeutics Inc.	640,836	8,107
*,^	Novavax Inc.	6,981,275	8,028
*,^	Tactile Systems Technology Inc.	278,281	7,953
*,^	NanoString Technologies Inc. Bellicum Pharmaceuticals Inc.	480,206 662,668	7,943 7,740
*	Pacific Biosciences of California Inc.	2,165,758	7,740 7,710
*,^	Aduro Biotech Inc.	664,789	7,710 7,579
*	Cutera Inc.	283,417	7,341
*,^	Adamas Pharmaceuticals Inc.	409,355	7,160
*,^	Invitae Corp.	747,294	7,144
*	STAAR Surgical Co.	660,693	7,136
*,^	Celldex Therapeutics Inc.	2,883,907	7,123
*	Audentes Therapeutics Inc.	370,105	7,080
*	Assembly Biosciences Inc.	340,741	7,036
*	Natera Inc.	644,003	6,994
*	CytomX Therapeutics Inc.	440,279	6,824
*,^	Agenus Inc.	1,706,696	6,673
*	Addus HomeCare Corp.	175,918	6,544
*,^	Cerus Corp.	2,603,081	6,534
*,^	Aratana Therapeutics Inc.	888,856 435,963	6,426 6,321
*	Zogenix Inc. ChemoCentryx Inc.	435,963 669,957	6,321 6,271
*	Concert Pharmaceuticals Inc.	448,187	6,252
*	R1 RCM Inc.	1,665,809	6,247
*,^	Organovo Holdings Inc.	2,364,691	6,219
*,^	BioScrip Inc.	2,258,257	6,131
*,^	Advaxis Inc.	939,099	6,095
*	Cempra Inc.	1,322,449	6,083
*	Minerva Neurosciences Inc.	680,465	6,022
*	Exactech Inc.	202,002	6,020
*	Civitas Solutions Inc.	339,271	5,937
*,^	Corbus Pharmaceuticals Holdings Inc.	932,395	5,874
*	RTI Surgical Inc.	987,728	5,778
*,^	Atara Biotherapeutics Inc.	410,872 192,637	5,752 5,586
*,^	Medpace Holdings Inc. MyoKardia Inc.	425,933	5,580
*	GlycoMimetics Inc.	423,933	5,509
*,^	Intellia Therapeutics Inc.	341,841	5,469
	Utah Medical Products Inc.	75,324	5,453
*	Tetraphase Pharmaceuticals Inc.	757,981	5,404
*,^	BioTime Inc.	1,705,571	5,373
*,^	Catalyst Pharmaceuticals Inc.	1,943,084	5,363
*,^	Kadmon Holdings Inc.	1,370,016	5,329
*,^	Anavex Life Sciences Corp.	949,007	5,049
*	BioSpecifics Technologies Corp.	101,642	5,032
*	RadNet Inc.	641,343	4,970
*,^	Idera Pharmaceuticals Inc.	2,866,803	4,931
*,^	Zynerba Pharmaceuticals Inc.	289,603 2,595,657	4,915
*,^	Curis Inc. Pulse Biosciences Inc.	140,005	4,906 4,834
*	Stemline Therapeutics Inc.	516,823	4,755
*,^	American Renal Associates Holdings Inc.	255,418	4,738
*,^	Reata Pharmaceuticals Inc. Class A	147,300	4,661
*,^	Entellus Medical Inc.	277,187	4,590
*	Chimerix Inc.	834,220	4,547
*,^	Ocular Therapeutix Inc.	483,814	4,485
*,^	Collegium Pharmaceutical Inc.	354,279	4,432
*	Veracyte Inc.	530,956	4,423
*	Kindred Biosciences Inc.	507,936	4,368
*,^	NantKwest Inc.	573,582	4,354

			Market
		Shares	Value (\$000)
*	FONAR Corp.	155,532	4,316
*,^	AVEO Pharmaceuticals Inc.	1,929,341	4,283
*,^	Seres Therapeutics Inc.	375,673	4,245
*	Corium International Inc.	568,204	4,239
*	Syndax Pharmaceuticals Inc.	300,163	4,193
*	Durect Corp.	2,640,742	4,120
*,^	Ardelyx Inc. Corindus Vascular Robotics Inc.	777,237 2,031,679	3,964
*	Clearside Biomedical Inc.	408,954	3,779 3,726
*	ConforMIS Inc.	862,943	3,720
*,^	Abeona Therapeutics Inc.	578,165	3,702
*,^	Syros Pharmaceuticals Inc.	220,331	3,545
*	Ra Pharmaceuticals Inc.	188,339	3,529
*,^	MediciNova Inc.	665,692	3,502
*,^	NewLink Genetics Corp.	471,429	3,465
*	Cymabay Therapeutics Inc.	598,314	3,446
*,^	Neos Therapeutics Inc.	471,833	3,444
*,^	Cascadian Therapeutics Inc.	925,491	3,438
*,^	ViewRay Inc.	517,554	3,349
*	Tocagen Inc.	276,800	3,330
*	Sientra Inc.	342,481	3,329
*,^	Psychemedics Corp.	129,134	3,222 3,181
*	Edge Therapeutics Inc. AnaptysBio Inc.	309,990 132,423	3,161
*,^	Conatus Pharmaceuticals Inc.	538,078	3,099
*,^	Athersys Inc.	2,030,769	3,066
*,^	Adamis Pharmaceuticals Corp.	546,768	2,843
*,^	Ophthotech Corp.	1,070,556	2,741
*	Kura Oncology Inc.	289,611	2,693
*	Fate Therapeutics Inc.	823,228	2,667
*,^	Voyager Therapeutics Inc.	296,342	2,655
*	Recro Pharma Inc.	376,363	2,646
	Digirad Corp.	646,980	2,620
*	Corvus Pharmaceuticals Inc.	215,063	2,602
*,^	Fortress Biotech Inc.	545,754	2,592
*	Alliance HealthCare Services Inc. Immune Design Corp.	194,848	2,592
*,^	VIVUS Inc.	264,893 2,075,043	2,583 2,532
*,^	Vericel Corp.	764,888	2,524
*,^	Nobilis Health Corp.	1,323,139	2,514
*,^	BioDelivery Sciences International Inc.	893,842	2,503
*	IRIDEX Corp.	249,167	2,464
*,^	MannKind Corp.	1,736,918	2,449
^	Merrimack Pharmaceuticals Inc.	1,969,959	2,443
*,^	Matinas BioPharma Holdings Inc.	1,426,600	2,411
*	Peregrine Pharmaceuticals Inc.	3,924,637	2,386
*	Trevena Inc.	1,012,433	2,329
*	Harvard Bioscience Inc.	886,650	2,261
*,^	Genocea Biosciences Inc.	432,953	2,260
*	Infinity Pharmaceuticals Inc.	1,423,794	2,235
*,^	Protagonist Therapeutics Inc. OncoMed Pharmaceuticals Inc.	193,639 632,504	2,190 2,106
*	ArQule Inc.	1,691,004	2,100
*	Selecta Biosciences Inc.	104,566	2,037
*,^	Arrowhead Pharmaceuticals Inc.	1,254,955	2,033
*,^	Jounce Therapeutics Inc.	143,945	2,020
*	Quorum Health Corp.	471,253	1,956
*,^	Viveve Medical Inc.	268,201	1,926
*,^	AAC Holdings Inc.	275,417	1,909
*,^	Zafgen Inc.	541,528	1,901
*,^	XBiotech Inc.	403,954	1,899
*	SeaSpine Holdings Corp.	162,532	1,872
*,^	CytRx Corp.	2,969,873	1,862
*	Chembio Diagnostics Inc.	290,680	1,759

			Market Value
		Shares	(\$000)
*,^	BrainStorm Cell Therapeutics Inc.	407,231	1,694
*,^	Synthetic Biologics Inc.	2,898,531	1,639
*,^	Sorrento Therapeutics Inc.	819,527	1,639 1,614
*,^	NantHealth Inc. Sophiris Bio Inc.	381,547 714,237	1,514
*,^	Actinium Pharmaceuticals Inc.	1,263,287	1,541
*	Invuity Inc.	212,352	1,540
*,^	Rexahn Pharmaceuticals Inc.	514,211	1,471
*	Verastem Inc.	661,665	1,442
*	Fulgent Genetics Inc.	220,000	1,406
*	Applied Genetic Technologies Corp.	274,717	1,401
*,^	InVivo Therapeutics Holdings Corp.	502,208	1,356
*,^	Navidea Biopharmaceuticals Inc.	2,619,773	1,336
*,^	AcelRx Pharmaceuticals Inc.	616,508	1,326
*,^	CTI BioPharma Corp.	398,572	1,319
*,^	OvaScience Inc.	833,465	1,300
*,^	Neuralstem Inc. Alimera Sciences Inc.	219,816	1,273
*	Cumberland Pharmaceuticals Inc.	906,323 175.338	1,260 1,240
*,^	Cancer Genetics Inc.	311,842	1,232
*	Bovie Medical Corp.	491,996	1,215
*,^	Ekso Bionics Holdings Inc.	520,926	1,209
*,^	Galectin Therapeutics Inc.	482,839	1,188
*,^	Mirati Therapeutics Inc.	320,856	1,171
*	Cidara Therapeutics Inc.	153,196	1,149
*	Aldeyra Therapeutics Inc.	240,564	1,131
*,^	KalVista Pharmaceuticals Inc.	155,181	1,117
٨	Pernix Therapeutics Holdings Inc.	276,071	1,110
*,^	Zosano Pharma Corp.	776,374	1,095
*	Sunesis Pharmaceuticals Inc.	405,029	1,094
*	Vital Therapies Inc.	376,574	1,092
*,^	Savara Inc.	184,193	1,083
*	pSivida Corp.	617,051	1,055
*	Proteostasis Therapeutics Inc.	215,504	1,009
*,^	T2 Biosystems Inc.	310,234	996
*,^	Pfenex Inc. Agile Therapeutics Inc.	242,627 259,322	973 972
*	Fibrocell Science Inc.	239,322	962
*,^	Imprimis Pharmaceuticals Inc.	297,625	952
*	Aevi Genomic Medicine Inc.	715,583	952
*,^	Evoke Pharma Inc.	363,268	930
*	Vermillion Inc.	504,917	929
*,^	Senseonics Holdings Inc.	510,570	919
*,^	SCYNEXIS Inc.	512,550	917
*,^	Palatin Technologies Inc.	2,103,374	904
*,^	ContraVir Pharmaceuticals Inc.	1,503,114	872
*,^	Egalet Corp.	362,438	859
*,^	XOMA Corp.	122,367	855
*	Endocyte Inc.	566,441	850
*	Aptevo Therapeutics Inc.	410,439	850
*,^	Juniper Pharmaceuticals Inc. iRadimed Corp.	165,581 95,336	836 820
*,^	Regulus Therapeutics Inc.	817,069	805
*,^	Ocera Therapeutics Inc.	691,250	802
*,^	aTyr Pharma Inc.	228,558	789
*,^	Axsome Therapeutics Inc.	140,590	773
*	ContraFect Corp.	524,937	761
*,^	Titan Pharmaceuticals Inc.	397,542	755
*,^	Asterias Biotherapeutics Inc.	212,711	755
*,^	NanoViricides Inc.	534,255	721
*,^	Marinus Pharmaceuticals Inc.	523,497	717
*	Biolase Inc.	737,776	716
*	G1 Therapeutics Inc.	40,150	700
*,^	Biocept Inc.	504,581	691

			Market
		Shares	Value (\$000)
*,^	CytoSorbents Corp.	160,279	689
*,^	Bellerophon Therapeutics Inc.	513,579	688
*	Misonix Inc.	70,038	676
*	InfuSystem Holdings Inc.	372,833	671
*	Tandem Diabetes Care Inc.	834,805	668
*,^	Obalon Therapeutics Inc. Bio-Path Holdings Inc.	66,929	663
*,^	KemPharm Inc.	1,637,827 158,591	636 634
*,^	Orexigen Therapeutics Inc.	218,691	634
*	Fluidigm Corp.	151,314	611
*,^	Second Sight Medical Products Inc.	483,599	609
*	vTv Therapeutics Inc. Class A	118,785	590
*,^	BioPharmX Corp.	1,229,840	589
*	Threshold Pharmaceuticals Inc.	1,429,184	562
*	Mersana Therapeutics Inc.	40,125	561
*	Adverum Biotechnologies Inc.	223,796	560
*,^	Inotek Pharmaceuticals Corp.	291,813	554
*	Madrigal Pharmaceuticals Inc.	33,606	546
*,^	IsoRay Inc.	846,170	529
*,^	Altimmune Inc. Ovid therapeutics Inc.	164,199 48,150	525 505
*,^	Galena Biopharma Inc.	46,150 865,858	503
*	Aviragen Therapeutics Inc.	743,674	498
*,^	Cleveland BioLabs Inc.	168,111	496
*	Nivalis Therapeutics Inc.	204,625	493
*,^	Novan Inc.	121,807	491
*	Spring Bank Pharmaceuticals Inc.	35,351	479
*,^	Tenax Therapeutics Inc.	647,032	478
*	CAS Medical Systems Inc.	412,750	475
*,^	Tonix Pharmaceuticals Holding Corp.	109,406	474
*	Flex Pharma Inc.	121,213	467
*,^	Moleculin Biotech Inc.	245,860	460
*	ADMA Biologics Inc.	114,043	438
^	Wright Medical Group Inc. CVR	288,011	438 435
*	Pain Therapeutics Inc. Athenex Inc.	105,566 26,883	430
*	Aeglea BioTherapeutics Inc.	111,265	427
*,^	Caladrius Biosciences Inc.	91,301	425
	Diversicare Healthcare Services Inc.	42,483	399
	MGC Diagnostics Corp.	46,649	396
*	Eiger BioPharmaceuticals Inc.	48,259	381
*	Histogenics Corp.	194,693	350
*,^	Immune Pharmaceuticals Inc.	112,567	350
	Daxor Corp.	57,002	348
*	Genesis Healthcare Inc.	199,004	346
*,^	Cytori Therapeutics Inc.	293,906	323
*,^	Ampio Pharmaceuticals Inc.	615,870	321
	Cogentix Medical Inc. Anthera Pharmaceuticals Inc.	174,611	304
*,^	Catabasis Pharmaceuticals Inc.	185,867 205,902	301 292
*	Five Star Senior Living Inc.	189,253	284
*,^	OncoSec Medical Inc.	236,521	281
*	Dicerna Pharmaceuticals Inc.	88,726	281
*	Dimension Therapeutics Inc.	192,659	279
*,^	Oncobiologics Inc.	275,848	279
*	CareDx Inc.	238,433	265
*	iBio Inc.	662,332	256
*,^	CorMedix Inc.	586,535	251
*	Oncocyte Corp.	47,653	248
*,^	Diffusion Pharmaceuticals Inc.	106,182	247
*	MEI Pharma Inc.	101,655	243
*,^	AdCare Health Systems Inc.	245,092	235
*,^	Sonoma Pharmaceuticals Inc.	34,844	231
*,^	Avinger Inc.	508,186	228

			Market Value
		Shares	(\$000)
*,^	ImmuCell Corp.	31,066	227
*	Gemphire Therapeutics Inc.	17,544	226
*	Electromed Inc.	40,675	225
*,^ *,^	Trovagene Inc. VBI Vaccines Inc.	177,960	224 219
*	Ohr Pharmaceutical Inc.	50,377 340,818	219
*,^	Repros Therapeutics Inc.	459,309	210
*,^	Heat Biologics Inc.	346,319	211
*	Dova Pharmaceuticals Inc.	9,400	210
*,^	EyeGate Pharmaceuticals Inc.	149,069	204
*	Retractable Technologies Inc.	152,899	196
*,^	HTG Molecular Diagnostics Inc.	73,493	196
*,^	Viking Therapeutics Inc.	180,700	195
*	CASI Pharmaceuticals Inc.	185,474	195
*,^	Novus Therapeutics Inc.	29,261	171
*	Joint Corp.	44,149	168
*	Mirna Therapeutics Inc.	96,853	164
*,^	Proteon Therapeutics Inc.	103,545	161
*,^	OpGen Inc.	233,497	150
*,^	Tracon Pharmaceuticals Inc.	61,156	147
*,^	Apricus Biosciences Inc.	128,703	145
*,^	Biostage Inc.	348,844	144 132
*,^	Argos Therapeutics Inc. Cerulean Pharma Inc.	364,736 257,067	114
*,^	Microbot Medical Inc.	76,296	108
*,^	BioLife Solutions Inc.	45,286	108
*,^	Hemispherx Biopharma Inc.	198,641	99
*,^	Chiasma Inc.	66,988	97
*,^	GTx Inc.	18,345	97
*,^	Celsion Corp.	45,464	93
*	Presbia plc	39,123	89
*,^	Eleven Biotherapeutics Inc.	56,094	88
*,^	OncoGenex Pharmaceuticals Inc.	228,587	82
*,^	Aethlon Medical Inc.	36,188	77
*,^	Amedica Corp.	186,095	71
*	Aradigm Corp.	50,300	68
*,^	PhaseRx Inc.	67,478	64
*	Aileron Therapeutics Inc.	5,426	61
	Milestone Scientific Inc.	36,833 20.062	55
*	Vical Inc. Micron Solutions Inc.	20,062 12,440	54 49
*,^	Capricor Therapeutics Inc.	48,322	49
*	Pro-Dex Inc.	6,000	37
*	Champions Oncology Inc.	10,400	27
*,^	Arcadia Biosciences Inc.	58,353	26
*,^	Asterias Biotherapeutics Inc. Warrants Exp. 09/29/2017	52,036	26
*,^	CEL-SCI Corp.	11,072	25
*	Leap Therapeutics Inc.	3,645	24
*,^	Cyclacel Pharmaceuticals Inc.	4,800	18
*,^	Neothetics Inc.	28,081	15
*	Biomerica Inc.	5,200	14
*,^	Alliqua BioMedical Inc.	30,615	11
*	Onconova Therapeutics Inc.	3,896	8
*	AzurRx BioPharma Inc.	1,242	5
*,^	TapImmune Inc.	1,200	5
*	TearLab Corp. Class A	2,600	4
*	American Shared Hospital Services	992 394	4
*	Alphatec Holdings Inc. Galena Biopharma Inc Warrants Exp. 03/18/2020	394 157,500	1
		157,500	76,002,805
Ind	lustrials (13.0%)	222 224 227	
	General Electric Co. 3M Co.	200,001,087 13,773,479	5,402,029
	Boeing Co.	13,773,479	2,867,501 2,613,261
	boomy ou.	13,214,372	۷,0۱۵,20۱

Honeywoll International Inc.			Market
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Unined Technologies Corp. Unine Parelic Corp. 16.623 150 12.028 853 Unine Parelic Corp. 16.620 150	Honeywell International Inc.	17.574.727	2.342.535
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Lockheed Martin Corp. 5,674,337 1,576,283 1,656,714 PayPal Holdings Inc. 1,355,874 1,466,714 PayPal Holdings Inc. 2,5314,331 1,412,280 2,5314,331,331 2,5314,331 2,5314,331,331 2,5314,331 2,5314,331,331 2,5314,3314,331 2,5314,3314,331 2,5314,331 2,5314,331 2,5314,331 2,5314,331 2,5314,331 2,5314,331 2,5314,3314,3314,3314,3314,3314,3314,3314			
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Fidelity National Information Services Inc.	Waste Management Inc.	10,131,428	743,140
TE Connectivity Ltd. 3,862,376 622,548 Cummins Inc. 3,862,376 626,555 Fiserv Inc. 4,948,540 605,404 Roper Technologies Inc. 2,349,288 643,931 Ingersol-Hand pic 5,948,088 543,936 PACCAR Inc. 8,069,978 533,668 Amphenol Corp. Class A 7,101,490 524,232 Parker-Hannifin Corp. 3,049,715 487,405 Rockwell Automation Inc. 2,963,840 480,024 Fortive Corp. 7,173,995 454,473 Agilent Technologies Inc. 7,410,274 421,941 Rockwell Collins Inc. 7,410,274 421,941 Rockwell Collins Inc. 3,734,632 392,435 Waste Connections Inc. 6,070,547 391,065 Vulcan Materials Co. 5,04,075 385,933 Republic Services Inc. Class A 5,504,075 385,733 West Rock Co. 5,94,847 350,091 Ball Corp. 8,044,869 339,574 West Rock Co. 5,770,348 326,948 <t< td=""><td>Sherwin-Williams Co.</td><td>1,929,717</td><td>677,253</td></t<>	Sherwin-Williams Co.	1,929,717	677,253
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CH Robinson Worldwide Inc. 3,261,235 223,982	,	4,119,383	228,337
	CH Robinson Worldwide Inc.	3,261,235	223,982

			Market
		Shares	Value (\$000)
	Total System Services Inc.	3,787,184	220,603
*	United Rentals Inc.	1,935,619	218,164
	WW Grainger Inc.	1,156,446	208.773
*	Trimble Inc.	5,805,023	207,065
	Broadridge Financial Solutions Inc.	2,728,342	206,154
	Acuity Brands Inc.	1,012,136	205,747
*	CoStar Group Inc.	763,419	201,237
	Sealed Air Corp.	4,475,429	200,320
	IDEX Corp.	1,755,390	198,377
	Huntington Ingalls Industries Inc.	1,056,037	196,592
*	Crown Holdings Inc.	3,232,374	192,843
	AO Smith Corp.	3,406,809	191,906
	Jack Henry & Associates Inc.	1,806,790	187,671
^	JB Hunt Transport Services Inc.	2,046,722	187,029
^	Wabtec Corp.	1,980,571	181,222
	Allegion plc	2,193,084	177,903
	ManpowerGroup Inc. Owens Corning	1,549,621	173,015 172,986
	PerkinElmer Inc.	2,584,962 2,523,817	172,986
	Lennox International Inc.	935,460	171,788
*	Berry Global Group Inc.	2,965,208	169,047
*,^	Sensata Technologies Holding NV	3,929,818	167,882
*	XPO Logistics Inc.	2,562,299	165,601
*	Keysight Technologies Inc.	4,220,021	164,285
	Toro Co.	2,366,415	163,969
	Spirit AeroSystems Holdings Inc. Class A	2,787,152	161,488
*	Arrow Electronics Inc.	2,051,880	160,908
	Cognex Corp.	1,889,387	160,409
	Jacobs Engineering Group Inc.	2,810,081	152,840
*	Stericycle Inc.	1,952,333	149,002
	Fluor Corp.	3,207,142	146,823
*	First Data Corp. Class A	8,043,294	146,388
	Old Dominion Freight Line Inc.	1,519,963	144,761
	Hubbell Inc. Class B	1,272,374	143,995
*	HD Supply Holdings Inc.	4,619,634	141,499
	Xerox Corp.	4,922,416	141,421
	Carlisle Cos. Inc.	1,479,692	141,163
	Macquarie Infrastructure Corp. Graco Inc.	1,796,461 1,283,641	140,843 140,276
	Flowserve Corp.	2,990,222	138,836
	Donaldson Co. Inc.	3,034,998	138,214
	Nordson Corp.	1,118,960	135,752
	Robert Half International Inc.	2,767,526	132,648
	Orbital ATK Inc.	1,340,072	131,809
	Allison Transmission Holdings Inc.	3,448,324	129,347
*	Coherent Inc.	566,028	127,351
	AptarGroup Inc.	1,448,923	125,853
*	IPG Photonics Corp.	864,859	125,491
	Lincoln Electric Holdings Inc.	1,362,349	125,459
*	TransUnion	2,889,465	125,143
*	Zebra Technologies Corp.	1,188,846	119,503
	MDU Resources Group Inc.	4,513,182	118,245
	Sonoco Products Co.	2,292,378	117,874
	Oshkosh Corp.	1,708,469	117,679
*	AECOM	3,577,300	115,654
	Avnet Inc.	2,964,999	115,279
	Jabil Inc.	3,763,924 2,079,452	109,869
*	Hexcel Corp. Quanta Services Inc.	2,079,452 3,322,665	109,774 109,382
	FLIR Systems Inc.	3,322,665	109,382
	National Instruments Corp.	2,681,516	107,851
	Watsco Inc.	694,406	107,077
	Universal Display Corp.	973,756	106,383
	Booz Allen Hamilton Holding Corp. Class A	3,266,999	106,308
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			Market Value
		Shares	(\$000)
	AGCO Corp.	1,569,482	105,767
*	BWX Technologies Inc.	2,157,989	105,202
*	Euronet Worldwide Inc. Bemis Co. Inc.	1,142,513	99,821 98,467
	Graphic Packaging Holding Co.	2,129,017 7,118,680	98,467 98,095
	Trinity Industries Inc.	3,487,588	97,757
	Eagle Materials Inc.	1,054,627	97,469
*	Genesee & Wyoming Inc. Class A	1,409,169	96,373
*	WEX Inc.	919,123	95,837
	MAXIMUS Inc.	1,479,238	92,645
*	Teledyne Technologies Inc.	725,256	92,579
	Crane Co.	1,160,704	92,137
	EMCOR Group Inc.	1,382,364	90,379
*	Genpact Ltd.	3,218,340	89,566
	Owens-Illinois Inc. MSC Industrial Direct Co. Inc. Class A	3,729,055	89,199 88,683
	Ryder System Inc.	1,031,681 1,225,936	88,243
*	CoreLogic Inc.	1,983,012	86,023
	Littelfuse Inc.	519,325	85,689
	Woodward Inc.	1,266,453	85,587
	HEICO Corp. Class A	1,370,902	85,064
	Curtiss-Wright Corp.	914,090	83,895
	Air Lease Corp. Class A	2,241,040	83,725
	Regal Beloit Corp.	1,022,657	83,398
	Landstar System Inc.	965,414	82,639
*	Kirby Corp.	1,219,154	81,500
	Terex Corp.	2,170,141	81,380
*	ITT Inc. Louisiana-Pacific Corp.	2,024,599 3,296,202	81,348 79,471
	Deluxe Corp.	1,114,838	79,471 77,169
	Valmont Industries Inc.	515,113	77,163
	Belden Inc.	987,741	74,505
	Timken Co.	1,589,155	73,498
	EnerSys	1,007,765	73,013
	Brink's Co.	1,085,378	72,720
*	Colfax Corp.	1,834,579	72,227
*	Conduent Inc.	4,519,411	72,039
	John Bean Technologies Corp.	724,028	70,955
*	Summit Materials Inc. Class A	2,408,666	69,538
*	MasTec Inc. Kennametal Inc.	1,530,344 1,835,479	69,095 68,684
	Barnes Group Inc.	1,161,427	67,978
*	Clean Harbors Inc.	1,188,954	66,379
*	Esterline Technologies Corp.	687,356	65,161
*	Sanmina Corp.	1,703,945	64,920
*	WESCO International Inc.	1,104,260	63,274
	MSA Safety Inc.	777,825	63,136
*,^	USG Corp.	2,155,451	62,551
*	On Assignment Inc.	1,153,081	62,439
	World Fuel Services Corp.	1,596,796	61,397
	Knight Transportation Inc.	1,646,710	61,011
*	WageWorks Inc.	906,652	60,927
*	Tetra Tech Inc. Itron Inc.	1,313,646 886,052	60,099 60,030
*	KLX Inc.	1,195,491	59,775
	GATX Corp.	922,220	59,775 59,271
*	MACOM Technology Solutions Holdings Inc.	1,022,546	57,027
	Silgan Holdings Inc.	1,783,621	56,683
*	Rexnord Corp.	2,353,002	54,707
*,^	Cimpress NV	564,569	53,369
*	RBC Bearings Inc.	519,834	52,898
*	Generac Holdings Inc.	1,461,823	52,816
*	Moog Inc. Class A	733,928	52,637
	ABM Industries Inc.	1,264,625	52,507

		Market Value
	Shares	(\$000)
* Masonite International Corp.	688,496	51,981
* Anixter International Inc.	654,833	51,208
Vishay Intertechnology Inc.	3,048,159	50,599
UniFirst Corp. Convergys Corp.	356,074 2,104,345	50,100 50,041
KBR Inc.	2,104,345 3,251,721	49,491
Applied Industrial Technologies Inc.	837,429	49,450
* Swift Transportation Co.	1.810.102	47,968
* Advisory Board Co.	926,889	47,735
* DigitalGlobe Inc.	1,418,441	47,234
* TopBuild Corp.	865,975	45,957
Granite Construction Inc.	949,852	45,821
* Trex Co. Inc.	674,011	45,604
^ Chicago Bridge & Iron Co. NV	2,308,988	45,556
* Rogers Corp.	411,770	44,726
* II-VI Inc. * Armstrong World Industries Inc.	1,293,419	44,364
Mueller Water Products Inc. Class A	962,162 3,680,036	44,259 42,983
* NeuStar Inc. Class A	1,279,740	42,679
* AMN Healthcare Services Inc.	1,084,138	42,336
Korn/Ferry International	1,202,428	41,520
* ExlService Holdings Inc.	737,048	40,965
Watts Water Technologies Inc. Class A	647,740	40,937
* Plexus Corp.	772,321	40,601
Greif Inc. Class A	727,546	40,583
Simpson Manufacturing Co. Inc.	928,448	40,582
Mueller Industries Inc.	1,324,776	40,339
Universal Forest Products Inc.	453,870	39,627
* Proto Labs Inc.	578,118	38,878
Franklin Electric Co. Inc.	908,961	37,631
Apogee Enterprises Inc. Forward Air Corp.	656,568 692,530	37,319 36,898
* Benchmark Electronics Inc.	1,138,563	36,776
^ Covanta Holding Corp.	2,759,080	36,420
* TTM Technologies Inc.	2,089,289	36,270
Otter Tail Corp.	907,998	35,957
Albany International Corp.	672,299	35,901
Triumph Group Inc.	1,120,977	35,423
Brady Corp. Class A	1,040,040	35,257
*^ Ambarella Inc.	725,936	35,244
EnPro Industries Inc.	492,423	35,144
* Fabrinet	821,262	35,035
* SPX FLOW Inc. * Knowles Corp.	948,365	34,976
* FTI Consulting Inc.	2,057,684 976,193	34,816 34,128
* Imperva Inc.	710,117	33,979
* Cardtronics plc Class A	1,034,025	33,978
Triton International Ltd.	1,012,343	33,853
AAON Inc.	916,237	33,763
AZZ Inc.	602,350	33,611
ESCO Technologies Inc.	557,696	33,267
* Builders FirstSource Inc.	2,150,603	32,947
Methode Electronics Inc.	791,654	32,616
Exponent Inc.	557,280	32,489
* Meritor Inc.	1,950,400	32,396
Comfort Systems USA Inc.	870,344 1 200 844	32,290
Actuant Corp. Class A * OSI Systems Inc.	1,300,844 423,850	32,001 31,852
* BMC Stock Holdings Inc.	423,850 1,447,507	31,852
* Aerojet Rocketdyne Holdings Inc.	1,517,909	31,626
Wabash National Corp.	1,431,724	31,469
* JELD-WEN Holding Inc.	968,860	31,449
* Navistar International Corp.	1,186,683	31,127
* TriNet Group Inc.	945,527	30,957

		Market Value
	Shares	(\$000)
Integer Holdings Corp.	715,520	30,946
Kaman Corp.	612,168	30,529
Werner Enterprises Inc. Mobile Mini Inc.	1,038,699	30,486
Tennant Co.	1,020,529 411,400	30,463 30,361
American Woodmark Corp.	317,216	30,301
Harsco Corp.	1,882,308	30,305
Atlas Air Worldwide Holdings Inc.	580.837	30,291
Saia Inc.	583,386	29,928
Sykes Enterprises Inc.	886,604	29,728
Veeco Instruments Inc.	1,067,325	29,725
Matson Inc.	988,629	29,698
Axon Enterprise Inc.	1,148,773	28,880
Insperity Inc.	405,095	28,762
Evolent Health Inc. Class A	1,133,738	28,740
Aircastle Ltd.	1,316,666	28,637
American Outdoor Brands Corp.	1,285,676	28,491
Raven Industries Inc.	846,341	28,183
Greenbrier Cos. Inc.	609,167	28,174
Paylocity Holding Corp. Hub Group Inc. Class A	614,068 722,405	27,744 27,704
Boise Cascade Co.	722,403 889,073	27,704
Gibraltar Industries Inc.	749,725	26,728
US Concrete Inc.	340,095	26,728
Air Transport Services Group Inc.	1,218,108	26,530
Standex International Corp.	290,649	26,362
Astec Industries Inc.	470,727	26,130
Cubic Corp.	560,715	25,961
Multi-Color Corp.	314,568	25,669
AAR Corp.	735,898	25,580
Badger Meter Inc.	640,435	25,521
Novanta Inc.	708,193	25,495
US Ecology Inc.	503,431	25,423
TrueBlue Inc.	959,207	25,419
Patrick Industries Inc.	342,854	24,977
Tutor Perini Corp.	868,514	24,970 24,758
Installed Building Products Inc. Sturm Ruger & Co. Inc.	467,574 398,115	24,758
ManTech International Corp. Class A	593,271	24,743
EVERTEC Inc.	1,418,064	24,533
Federal Signal Corp.	1,386,091	24,063
Primoris Services Corp.	964,768	24,061
SPX Corp.	949,357	23,886
Cotiviti Holdings Inc.	634,966	23,583
Heartland Express Inc.	1,123,586	23,393
CIRCOR International Inc.	389,594	23,134
Huron Consulting Group Inc.	532,790	23,017
Sun Hydraulics Corp.	537,616	22,940
Altra Industrial Motion Corp.	575,213	22,893
HEICO Corp.	312,228	22,430
Viad Corp.	470,930	22,251
TriMas Corp.	1,060,873	22,119
MINDBODY Inc. Class A	793,770	21,591
Navigant Consulting Inc. Continental Building Products Inc.	1,080,611 907,351	21,353 21,141
RR Donnelley & Sons Co.	1,683,531	21,141
Milacron Holdings Corp.	1,173,140	20,636
Advanced Disposal Services Inc.	904,952	20,570
Lindsay Corp.	230,395	20,563
Alamo Group Inc.	224,304	20,369
Schneider National Inc. Class B	906,270	20,273
Argan Inc.	327,748	19,665
Encore Wire Corp.	459,604	19,625
Inovalon Holdings Inc. Class A	1,490,282	19,597

CF International Inc.				Market
ICF International Inc. MIT Systems Corp. 376,295 194.4			Shares	Value (\$000)
MTS Systems Corp. 1,376,295 19,48 Ceneral Calable Corp. 1,188,985 19,44 Krotes Defense & Security Solutions Inc. 1,636,279 19,22 AVX Corp. 11,70,983 19,12 Acrovironment Inc. 49,684,51 19,00 Meteral Rentzon 55,622 18,24 Montever Holdings Inc. 65,622 18,24 Montever Co. Inc. 3,051,867 18,28 Martino Corp. 30,166 18,22 Metrion Corp. 485,810 18,16 Kadant Inc. 293,558 18,00 Griffon Corp. 797,400 17,57 Domeldey Financial Solutions Inc. 752,462 17,27 Domeldey Financial Solutions Inc. 752,462 17,27 Applicate. 752,462 17,27 Applicate. 730,663 11,57,79 17,35 Coll Zinc. 752,462 17,27 18,24 Applicate. 730,664 17,27 18,24 Applicate. 730,664 17,27 18,24	*	ICF International Inc.		19,536
k rotes Defense & Security Solutions Inc. 1,836,279 19,42 Lytall III. 371,699 19,21 ANX Corp. 1,170,983 19,12 Aerovironment Inc. 498,645 19,00 Mediath RentCorp 547,902 18,93 Cacture Descriptions 371,129 18,93 Cacture Descriptions 30,18,73 18,38 Maritimore Co. Inc. 30,18,67 18,38 Advanced Ortinage Systems Inc. 486,810 18,28 Masterion Corp. 486,810 18,18 Kadart Inc. 239,588 18,00 Griffon Corp. 797,400 17,57 Donnelley Financial Solutions Inc. 752,462 17,27 PHH Corp. 1,214,025 17,00 Agenic Corp. Class A 779,305 17,00 August Corp. Class A 779,305 17,00 Line Corp. Class A 779,			·	19,492
1. Lydal Inc. 371,629 19,21 AVX Corp. 1,179,883 19,15 Accordrommet Inc. 489,645 19,04 McGraft RentCorp 67,902 18,97 GMS Inc. 65,802 18,48 Maintowce Co. Inc. 30,51,867 18,34 Maintowce Co. Inc. 30,51,867 18,34 Advanced Dianage Systems Inc. 30,101,867 18,34 Advanced Dianage Systems Inc. 239,558 18,01 Kodard Inc. 239,558 18,01 Galffon Corp. 79,400 17,52 Coll Zinc. 1,157,079 17,32 Donnelley Financiel Solutions Inc. 75,462 17,22 PHH Corp. 1,241,625 17,09 Augine Corp. Class A 739,365 17,09 Quadrice Building Products Corp. 79,740 16,72 RPX Corp. 1,19,821 16,71 Fel Fech Holdings Inc. 40,303 16,45 Schnitzer Steel Industries Inc. 690,829 16,27 Kally Services Inc. 690,829		General Cable Corp.	1,188,985	19,440
AVX Corp.	*	Kratos Defense & Security Solutions Inc.	1,636,279	19,423
- Aerovinchment Inc. 498,645 19,04 MoGraft Pentrocy 547,902 18,37 Gardner Deriver Holdings Inc. 685,802 18,44 Manitowoc Co. Inc. 3,051,867 18,24 Matintowoc Co. Inc. 30,051,867 18,24 Matin Co. Corp. 445,810 18,16 Kadart Inc. 293,958 18,10 Griffen Corp. 797,400 17,57 Obustilly Financial Solutions Inc. 197,407 173,27 Douncellay Financial Solutions Inc. 193,407 172,407 Copy Corp. Class A 179,365 170,407 Quisare Subliding Products Corp. 79,965 170,407 Britary Corp. 1,197,821 16,77 Fel Eeth Holdings Inc. 66,009 16,27 Fel Eeth Holdings Inc. <	*			19,213
MaGrath RemCorp 547,902 18,97 6 adriance Denover Holdings Inc. 873,129 18,96 6 MS Inc. 3051,867 18,43 4 Advanced Drainage Systems Inc. 3051,867 18,24 4 Advanced Drainage Systems Inc. 488,810 18,24 4 Advanced Drainage Systems Inc. 488,810 18,24 4 Advanced Drainage Systems Inc. 488,810 18,25 4 Advanced Drainage Systems Inc. 488,810 18,25 4 Advanced Drainage Systems Inc. 488,810 18,25 4 Advanced Drainage Systems Inc. 490,856 18,00 17,00				19,134
Gardner Denwer Holdings Inc. 873,129 18,84 Maintowoc Co. Inc. 655,802 18,43 Maintowoc Co. Inc. 3,061,867 18,34 Advanced Drininge Systems Inc. 908,166 18,25 Materion Corp. 485,810 18,16 Kadart Inc. 293,558 18,10 Griffon Corp. 797,400 17,57 Donnelley Financial Solutions Inc. 1,70,709 17,33 Donnelley Financial Solutions Inc. 780,262 17,27 Aegion Corp. Class A 793,085 17,06 Application State Solution Products Corp. 790,740 18,77 RPX Corp. 11,97,221 18,77 RPX Corp. 11,97,821 18,77 Tel Tace In Holdings Inc. 60,009 16,22 Alkore International Group Inc. 60,009 16,22 Team Inc. 600,009 16,22 Kelly Services Inc. Class A 711,003 15,98 LSC Communications Inc. 71,23 15,98 Lobud Exas & Corpor Holdings Inc. 10,000 16,10	*		•	19,048
GMS Inc. 665,802 18,42 Advanced Drainage Systems Inc. 908,166 18,22 Matterion Corp. 498,166 18,22 Kadant Inc. 239,558 18,10 Griffon Corp. 797,400 17,56 Griffon Corp. 11,57,079 17,35 Domrelley Financial Solutions Inc. 1,157,079 17,32 PHH Corp. 1,241,025 17,02 Aegion Corp. Class A 779,365 17,00 Quance Sullding Products Corp. 739,064 16,32 Quance Sullding Products Corp. 1,197,621 16,77 FRY Corp. 1,197,621 16,77 Fel Felch Holdings Inc. 193,335 16,22 NN Inc. 993,335 16,22 Schritzer Steel Industries Inc. 943,395 16,22 Actions International Group Inc. 70,400 17,245 16,32 Kall Services Inc. Class A 11,100 15,49 16,22 List Communications Inc. 90,493 16,22 16,24 16,32 16,24 16,32				
Manitowoc Co. Inc. 3,051,857 18,34 Advanced Driniage Systems Inc. 98,166 18,25 Materion Corp. 485,810 18,16 Griffon Corp. 797,400 17,55 CBIZ Inc. 1157,079 17,31 Donnelley Financial Solutions Inc. 752,462 17,27 PHI Corp. 1,214,625 17,00 Agoin Corp. Class A 779,365 17,00 Quarek Bullding Products Corp. 190,740 16,72 PRY Corp. 1,97,821 16,71 TeleTech Holdings Inc. 403,386 16,42 NN Inc. 593,335 16,28 Schnitzer Steel Industries Inc. 403,386 16,42 Schnitzer Steel Industries Inc. 460,009 16,27 Term Inc. 400,009 16,27 Term Inc. 400,009 16,27			•	
Advanced Drainage Systems Inc. 988, 166 18.25				
Materion Corp. 485,810 18,16 Kadant Inc. 239,558 18,01 Griff Corp. 797,400 17,52 Donnelley Financial Solutions Inc. 762,462 17,23 PhH Corp. 12,41,625 17,03 Agoin Corp. Class A 779,365 17,00 OuarGRaphics Inc. 789,074 16,72 Claud Graphics Inc. 190,740 16,72 RPX Corp. 190,740 16,72 TelleTech Holdings Inc. 403,386 16,48 NN Inc. 989,335 16,22 Schnitzer Steel Industries Inc. 466,009 16,27 Schnitzer Steel Industries Inc. 460,009 16,27 Fam Inc. 690,629 16,22 Kelly Services Inc. Class A 171,003 16,26 Kelly Services Inc. Class A 11,003 16,96 LiSC Communications Inc. 742,745 15,88 Goldst Brass & Copper Holdings Inc. 407,255 15,83 Global Brass & Copper Holdings Inc. 407,255 15,33 FARO Technologie				
Kadant Inc. 239,588 18.01 Griffon Corp. 1797,400 17.52 CRIZ Inc. 1,167,079 17.23 Donnelley Financial Solutions Inc. 152,1625 17.02 PHH Corp. 1,241,625 17.03 Aegion Corp. Class A 779,365 17.00 Quance Rullding Products Corp. 739,064 16.32 BPX Corp. 1,197,821 16.71 TeleTeeth Holdings Inc. 403,386 16.46 NI Inc. 593,335 16.28 Schnitzer Steel Industries Inc. 640,009 16.22 Aktore International Group Inc. 721,136 16.22 Kally Services Inc. Class A 711,003 15.96 LSC Communications Inc. 721,136 16.22 LSC Communications Inc. 481,113 15.85 Douglas Dynamics Inc. 481,113 15.83 Global Brass & Copper Holdings Inc. 71,2837 15.33 HAE Equipment Services Inc. 72,275 15.34 Babocok & Wilcox Enterprises Inc. 12,84,469 15,16				
Griffon Corp. 797,400 17.50 Donnelley Financial Solutions Inc. 752,462 17.21 Donnelley Financial Solutions Inc. 752,462 17.22 Acgion Corp. Class A 779,365 17.08 OuarGraphics Inc. 799,064 16.73 Ouare Suliding Products Corp. 790,740 16.72 FPX Corp. 11,197,821 16.77 Telle Tech Holdings Inc. 403,398 16.48 NN Inc. 593,335 16.22 Schnitzer Steel Industries Inc. 646,009 16.27 Advore International Group Inc. 640,009 16.27 Team Inc. 690,829 16.27 Kelly Services Inc. Class A 71,103 15.95 LSC Communications Inc. 742,745 15.85 Louglas Dynamics Inc. 401,245 15.85 Global Brass & Copper Holdings Inc. 506,662 15.47 CTS Corp. 712,837 15.35 FAROT Technologies Inc. 407,258 15.35 Babcock & Wilcox Enterprises Inc. 1,284,489 15.15 </td <td></td> <td>·</td> <td>·</td> <td></td>		·	·	
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1. Donnelley Financial Solutions Inc. 752, 462 17.27 2. Aegion Corp. Class A 779, 365 17.08 OuarGyaphics Inc. 739, 064 16.75 Ouare Suliding Products Corp. 790, 740 16.75 7 RPX Corp. 11, 197, 821 16.77 1 Tele Iech Holdings Inc. 403, 386 16.48 NN Inc. 6593, 335 16.22 Schnitzer Steel Industries Inc. 646,009 16.27 Atxore International Group Inc. 640,009 16.27 Taram Inc. 690,829 16.27 Kelly Services Inc. Class A 71,103 16.26 LSC Communications Inc. 742,745 15.85 LSC Communications Inc. 742,745 15.85 Global Brass & Copper Holdings Inc. 506,662 15.47 CTS Corp. 170,878 15.35 FAROT Technologies Inc. 407,288 15.35 H&E Equipment Services Inc. 1,284,489 15.16 Wesco At Wilcox Enterprises Inc. 1,284,489 15.16 Mretn Transport Ltd. 54,246 14,76 Mesco At Wilcox Enterprises Inc. 1,365,546<	*	·		17,356
1 PHH Corp. 1,241,625 17.05 Aegion Corp. Class A 779,365 17.05 Ouanex Building Products Corp. 790,740 16.93 1 PRY Corp. 11,97,821 16.71 7 PBP Corp. 11,97,821 16.71 7 Fele Tech Holdings Inc. 403,336 16.42 NN Inc. 593,335 16.22 Schnitzer Stell Industries Inc. 640,000 16.22 Aktore International Group Inc. 721,136 16.25 Aktore International Group Inc. 721,138 16.25 Kelly Services Inc. Class A 711,003 15.05 LSC Communications Inc. 472,745 15.86 Douglas Dynamics Inc. 481,113 15.86 Global Brass & Copper Holdings Inc. 481,113 15.86 Global Brass & Copper Holdings Inc. 712,287 15.33 FARO Technologies Inc. 497,288 15.33 H&E Equipment Services Inc. 752,725 15.33 Babcock & Wilcox Enterprises Inc. 15.34 15.34 Wesco Aircraft Holdings Inc. 15.34 15.34 International Seaways Inc. 16.66,33<	*			17,277
- Aegion Corp. Class A Ouard/Faphics Inc. 779,365 17,05 17	*			17,097
Ouanex Building Products Corp. 739,044 16,52 RPX Corp. 1,197,821 16,77 TeleTech Holdings Inc. 403,336 16,77 NN Inc. 593,335 16,22 Schnitzer Steel Industries Inc. 640,009 16,22 Aktore International Group Inc. 721,136 16,22 Team Inc. 690,829 16,22 Kelly Services Inc. Class A 711,003 15,98 LSC Communications Inc. 481,113 15,88 Global Brass & Copper Holdings Inc. 481,113 15,88 Global Brass & Copper Holdings Inc. 710,283 15,88 FARO Technologies Inc. 470,288 15,38 H&E Equipment Services Inc. 752,725 15,38 Baboock & Wilcox Enterprises Inc. 1,284,469 15,11 Marten Transport Ltd. 54,469 15,11 Wesco Aircraft Holdings Inc. 1,399,546 14,75 International Seaways Inc. 752,220 14,42 International Seaways Inc. 752,220 14,42 Insteel Industries Inc. 91,01	*			17,053
RPX Corp. 1,197,821 16.77 ToleTech Holdings Inc. 403,336 16.48 NN Inc. 503,335 16.28 Schnitzer Steel Industries Inc. 646,009 16.27 Alkore International Group Inc. 721,136 16.26 Team Inc. 690,829 16.22 Kelly Services Inc. Class A 771,003 15.96 LSC Communications Inc. 481,113 15.88 Douglas Dynamics Inc. 481,113 15.88 Global Brass & Copper Holdings Inc. 506,662 15.47 CTS Corp. 712,837 15.38 H&E Equipment Services Inc. 752,725 15.38 H&E Equipment Services Inc. 752,725 15.38 Babcock & Wilcox Enterprises Inc. 752,275 15.33 Marten Transport Ltd. 543,266 14,88 Wesca Aircraft Holdings Inc. 762,633 14,68 International Seaways Inc. 762,230 14,42 International Seaways Inc. 762,230 14,42 International Seaways Inc. 762,230 14,22 Casella Waste Systems Inc. Class A 871,809 1			739,064	16,939
TeleTech Holdings Inc.		Quanex Building Products Corp.		16,724
NN Inc. 593,335 16,26 Schritzer Steel Industries Inc. 684,009 16,22 Taam Inc. 690,829 16,26 Team Inc. 690,829 16,26 Kelly Services Inc. Class A 711,003 15,98 LSC Communications Inc. 742,745 15,88 Douglas Dynamics Inc. 481,113 15,88 Global Brass & Copper Holdings Inc. 506,662 15,47 CTS Corp. 712,837 15,38 FARO Technologies Inc. 407,258 15,38 H&E Equipment Services Inc. 752,725 15,38 Babcock & Wilcox Enterprises Inc. 12,844,669 15,13 Marten Transport Ltd. 543,266 14,88 Wesco Aircraft Holdings Inc. 1389,546 14,78 International Seaways Inc. 676,633 14,64 Thermon Group Holdings Inc. 752,230 14,44 Casella Waste Systems Inc. Class A 871,809 14,30 PGT Innovations Inc. 1,113,340 14,25 Insteel Industries Inc. 406,526 12,61	*	RPX Corp.	1,197,821	16,710
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Insteel Industries Inc.	*	Casella Waste Systems Inc. Class A	871,809	14,306
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Essendant Inc. 896,920 13,30 MYR Group Inc. 406,526 12,61 InnerWorkings Inc. 1,081,354 12,54 DXP Enterprises Inc. 358,671 12,37 Engility Holdings Inc. 431,092 12,24 Hyster-Yale Materials Handling Inc. 173,737 12,22 TimkenSteel Corp. 791,092 12,15 NCI Building Systems Inc. 704,281 11,76 Floor & Decor Holdings Inc. Class A 298,829 11,73 Ennis Inc. 595,527 11,36 KEMET Corp. 887,626 11,36 ArcBest Corp. 547,893 11,26 Kforce Inc. 573,612 11,24 Myers Industries Inc. 623,718 11,15 Kimball Electronics Inc. 612,992 11,06 Everi Holdings Inc. 206,849 10,81 Landauer Inc. 206,849 10,81 Mesa Laboratories Inc. 74,384 10,66 Columbus McKinnon Corp. 418,324 10,66	*	· · · · · · · · · · · · · · · · · · ·	·	13,950
• MYR Group Inc. 406,526 12,61 • InnerWorkings Inc. 1,081,354 12,54 • DXP Enterprises Inc. 358,671 12,37 • Engility Holdings Inc. 431,092 12,37 • Hyster-Yale Materials Handling Inc. 173,737 12,22 • TimkenSteel Corp. 791,092 12,15 • NCI Building Systems Inc. 704,281 11,76 • Floor & Decor Holdings Inc. Class A 298,829 11,73 Ennis Inc. 595,527 11,37 • KEMET Corp. 887,626 11,36 ArcBest Corp. 887,626 11,26 Kforce Inc. 573,612 11,24 Myers Industries Inc. 623,718 11,18 • Kimball Electronics Inc. 612,992 11,06 • Everi Holdings Inc. 1,504,058 10,98 Landauer Inc. 206,849 10,81 Mesa Laboratories Inc. 74,384 10,66 Columbus McKinnon Corp. 418,324 10,66		·		13,306
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Everi Holdings Inc. 1,504,058 10,95 Landauer Inc. 206,849 10,81 Mesa Laboratories Inc. 74,384 10,66 Columbus McKinnon Corp. 418,324 10,66		Myers Industries Inc.	623,718	11,196
Landauer Inc. 206,849 10,81 Mesa Laboratories Inc. 74,384 10,66 Columbus McKinnon Corp. 418,324 10,63	*			11,065
Mesa Laboratories Inc. 74,384 10,66 Columbus McKinnon Corp. 418,324 10,63	*			10,950
Columbus McKinnon Corp. 418,324 10,63			·	10,818
				10,660
REV Group Inc. 378,923 10,48		!		10,634
		KEV Group Inc.	378,923	10,489

		Market Value
	Shares	(\$000)
Resources Connection Inc.	759,314	10,403
Astronics Corp.	339,466	10,344
Cross Country Healthcare Inc. Gorman-Rupp Co.	763,836	9,861 9,835
Armstrong Flooring Inc.	386,122 545,065	9,835
Control4 Corp.	490,284	9,614
B. Riley Financial Inc.	504.217	9,353
Bazaarvoice Inc.	1,879,237	9,302
Miller Industries Inc.	371,560	9,233
CAI International Inc.	384,065	9,064
Barrett Business Services Inc.	157,371	9,016
Mistras Group Inc.	406,319	8,927
Heidrick & Struggles International Inc.	405,839	8,827
Ply Gem Holdings Inc.	484,454	8,696
NVE Corp. American Railcar Industries Inc.	111,058	8,551 8,531
Landec Corp.	222,753 568,982	8,531
VSE Corp.	182,910	8,227
Daktronics Inc.	840,269	8,092
NV5 Global Inc.	189,564	8,056
YRC Worldwide Inc.	713,562	7,935
Ducommun Inc.	250,256	7,903
Park Electrochemical Corp.	413,894	7,624
Park-Ohio Holdings Corp.	199,091	7,585
Horizon Global Corp.	524,917	7,538
Sterling Construction Co. Inc.	573,740	7,499
Spartan Motors Inc.	829,338	7,340
Energy Recovery Inc.	844,718	7,003
GP Strategies Corp.	263,508	6,957
Eagle Bulk Shipping Inc. CRA International Inc.	1,459,416 185,332	6,903 6,731
Hudson Technologies Inc.	793,998	6,709
Powell Industries Inc.	201,892	6,459
Energous Corp.	396,106	6,441
CECO Environmental Corp.	662,861	6,085
NACCO Industries Inc. Class A	82,600	5,852
Great Lakes Dredge & Dock Corp.	1,309,801	5,632
Willdan Group Inc.	181,336	5,540
Intevac Inc.	483,761	5,370
Commercial Vehicle Group Inc.	626,377	5,293
ServiceSource International Inc.	1,354,998	5,257
Covenant Transportation Group Inc. Class A	297,596	5,217
Vicor Corp. Supreme Industries Inc. Class A	289,796 311,699	5,187 5,127
Electro Scientific Industries Inc.	617,843	5,127
EnerNOC Inc.	615,629	4,771
Overseas Shipholding Group Inc. Class A	1,781,341	4,738
Eastern Co.	156,839	4,713
LSI Industries Inc.	516,199	4,672
PRGX Global Inc.	710,958	4,621
Bel Fuse Inc. Class B	186,587	4,609
Roadrunner Transportation Systems Inc.	624,814	4,542
Neff Corp. Class A	238,388	4,529
Advanced Emissions Solutions Inc.	488,559	4,475
Franklin Covey Co.	229,480	4,429
Sparton Corp.	201,033 736,414	4,421
Maxwell Technologies Inc. Orion Group Holdings Inc.	736,414 584,402	4,411 4,365
Agua Metals Inc.	339,079	4,365
Era Group Inc.	449,343	4,255
Information Services Group Inc.	1,033,241	4,247
Allied Motion Technologies Inc.		.,,
ranou imotioni roominologios mo.	155,341	4,228
Acacia Research Corp.	155,341 1,023,078	4,228 4,195

			Market Value
		Shares	(\$000)
*	Radiant Logistics Inc.	767,888	4,131
	FreightCar America Inc.	236,893	4,120
*	Heritage-Crystal Clean Inc.	256,426	4,077
*	Omega Flex Inc.	60,205	3,877
*	CyberOptics Corp.	183,800	3,795
	LB Foster Co. Class A Graham Corp.	175,883 187,416	3,773 3,685
*	IES Holdings Inc.	201,491	3,657
*,^	Forterra Inc.	444,288	3,657
	Hurco Cos. Inc.	104.859	3,644
*	UFP Technologies Inc.	127,473	3,607
*	Twin Disc Inc.	222,915	3,598
	BG Staffing Inc.	203,010	3,528
*	DHI Group Inc.	1,222,391	3,484
*	Hill International Inc.	667,343	3,470
*	Northwest Pipe Co.	210,221	3,418
	National Research Corp. Class A	126,849	3,412
*	Astronics Corp. Class B	111,356	3,405
*	Vishay Precision Group Inc.	195,688	3,385
*,^	MicroVision Inc.	1,575,583	3,340
*	Willis Lease Finance Corp.	123,166	3,292
	Hardinge Inc. Black Box Corp.	254,551	3,162 3,120
*,^	Blue Bird Corp.	364,910 182,809	3,120
*	Goldfield Corp.	559,823	3,108
*	Iteris Inc.	491,878	3,059
^	Global Water Resources Inc.	306,658	3,036
*	StarTek Inc.	241,218	2,953
	Crawford & Co. Class B	313,468	2,915
*,^	Huttig Building Products Inc.	402,964	2,825
*	Asure Software Inc.	191,525	2,798
*	Gencor Industries Inc.	169,936	2,753
*	Napco Security Technologies Inc.	275,603	2,591
	DMC Global Inc.	195,784	2,565
	United States Lime & Minerals Inc.	32,488	2,549
	Houston Wire & Cable Co.	475,973	2,499
*,^	ExOne Co.	217,359	2,489
*,^	Layne Christensen Co.	282,603	2,484
	Planet Payment Inc.	720,688	2,378
*,^	Arotech Corp. Lawson Products Inc.	636,010	2,258
*	Manitex International Inc.	96,392 304,218	2,135 2,123
*	Nuvectra Corp.	158,877	2,123
*	ARC Document Solutions Inc.	504,508	2,099
*,^	CUI Global Inc.	541,573	2,080
٨	Richardson Electronics Ltd.	338,852	2,023
*,^	Workhorse Group Inc.	543,920	2,007
*	CDI Corp.	340,177	1,990
*	CryoPort Inc.	395,534	1,946
*	Broadwind Energy Inc.	364,310	1,836
*	Frequency Electronics Inc.	191,069	1,823
*	PFSweb Inc.	217,863	1,800
*	Aspen Aerogels Inc.	394,399	1,755
	Crawford & Co. Class A	222,466	1,731
^	Celadon Group Inc.	548,487	1,728
*	Ballantyne Strong Inc.	232,067	1,555
*	Sharps Compliance Corp.	358,366 107,070	1,516
*	Daseke Inc.	127,278	1,417
*	Ultralife Corp.	193,856	1,396
*	ALJ Regional Holdings Inc. Perceptron Inc.	433,960	1,389
*	Mattersight Corp.	188,302 532,688	1,371 1,358
*	Xerium Technologies Inc.	183,281	1,358
^	EnviroStar Inc.	47,900	1,296
	Environtal IIIO.	47,000	1,200

		Shares	Market Value (\$000)
_			
*	Transcat Inc.	104,670	1,272
	ModusLink Global Solutions Inc.	732,678	1,253
	PAM Transportation Services Inc.	65,444	1,240
	CPI Aerostructures Inc.	130,743	1,229
*	Key Technology Inc.	85,325 411,197	1,173 1,110
*	LightPath Technologies Inc. Class A Perma-Pipe International Holdings Inc.	136,141	1,110
*	USA Truck Inc.	117,929	1,021
*	Innovative Solutions & Support Inc.	206,201	907
*	Taylor Devices Inc.	67,427	901
*	Lincoln Educational Services Corp.	271,137	841
*	eMagin Corp.	328,800	806
*,^	Synthesis Energy Systems Inc.	1,196,178	801
*,^	Revolution Lighting Technologies Inc.	116,833	770
*,^	American Superconductor Corp.	165,242	763
*	Volt Information Sciences Inc.	186,827	738
*,^	Energy Focus Inc.	274,872	723
*	Perma-Fix Environmental Services	188.566	698
*	IEC Electronics Corp.	192,084	692
*,^	Cenveo Inc.	107,920	657
	AMCON Distributing Co.	5,948	626
*	Ameresco Inc. Class A	71,297	549
*,^	Applied DNA Sciences Inc.	297,601	524
*	Orion Energy Systems Inc.	390,406	500
*	ClearSign Combustion Corp.	128,314	488
*,^	Vertex Energy Inc.	437,710	468
*,^	UQM Technologies Inc.	540,865	459
*	Luna Innovations Inc.	280,341	423
*,^	Research Frontiers Inc.	320,612	414
	Chicago Rivet & Machine Co.	11,186	410
*	Air T Inc.	19,270	409
^	Cemtrex Inc.	98,808	356
*,^	GEE Group Inc.	67,770	350
*	Foundation Building Materials Inc.	26,754	344
*,^	Odyssey Marine Exploration Inc.	93,030	336
*	Sevcon Inc.	23,992	322
*	Wireless Telecom Group Inc.	185,057	296
*,^	Polar Power Inc.	54,012	287
*,^	AMREP Corp.	41,838	284
*	ENGlobal Corp.	215,127	280
*	DLH Holdings Corp.	50,884	274
*	Image Sensing Systems Inc.	74,588	272
	Ecology and Environment Inc.	21,480	272
*	Universal Technical Institute Inc.	70,427	251
*,^	Turtle Beach Corp.	356,386	249
*,^	Capstone Turbine Corp.	346,903	236
*,^	EnSync Inc.	602,688	223
*,^	Patriot National Inc.	104,630	222
	Bel Fuse Inc. Class A	10,580	221
	Greif Inc. Class B	3,467	209
*	Versar Inc.	141,293	206
*,^	Pioneer Power Solutions Inc.	30,547	205
	RF Industries Ltd.	106,118	196
*,^	Digital Ally Inc.	60,491	191
*	BlueLinx Holdings Inc.	15,958	174
*	Continental Materials Corp.	8,941	171
*	Echelon Corp.	29,696	155
*	Fuel Tech Inc.	173,732	146
*	IntriCon Corp.	18,209	146
*	Astrotech Corp.	150,256	144
*	Sypris Solutions Inc.	87,241	144
*	SigmaTron International Inc.	18,805	124
*	American Electric Technologies Inc.	65,060	117
*	Patriot Transportation Holding Inc.	6,242	112

			Market Value
		Shares	(\$000)
*	SIFCO Industries Inc.	16,533	110
*,^	Quest Resource Holding Corp.	37,894	93
*	Industrial Services of America Inc.	55,088	82
*,^	Rand Logistics Inc. Command Security Corp.	202,682 15,885	79 50
*	AeroCentury Corp.	3,872	48
*,^	Payment Data Systems Inc.	38,549	47
	Servotronics Inc.	4,914	46
	Universal Logistics Holdings Inc.	2,931	44
*	Art's-Way Manufacturing Co. Inc.	7,669	23
	Issuer Direct Corp.	1,680	22
*,^	root9B Holdings Inc.	2,409	22
*	Limbach Holdings Inc.	1,700	20
*	Nortech Systems Inc. Rubicon Technology Inc.	4,400 1,565	16 15
*	Tel-Instrument Electronics Corp.	4,297	14
*	Electro-Sensors Inc.	1,291	5
*	Interlink Electronics Inc.	462	4
*	Jewett-Cameron Trading Co. Ltd.	185	2
*	CTPartners Executive Search Inc.	100,659	_
*	LGL Group Inc. Warrants Exp. 06/08/2018	3,000	_
Oil	& Gas (5.5%)	_	75,308,862
Oil	Exxon Mobil Corp.	97,608,070	7,879,900
	Chevron Corp.	43,636,886	4,552,636
	Schlumberger Ltd.	32,006,897	2,107,334
	ConocoPhillips	28,473,897	1,251,713
	EOG Resources Inc.	13,288,681	1,202,891
	Occidental Petroleum Corp.	17,585,715	1,052,857
	Kinder Morgan Inc. Phillips 66	43,634,364 10,097,991	836,034 835,003
	Halliburton Co.	18,981,205	810,687
	Valero Energy Corp.	10,342,707	697,719
	Marathon Petroleum Corp.	12,091,864	632,767
	Pioneer Natural Resources Co.	3,911,248	624,157
	Anadarko Petroleum Corp.	12,886,521	584,275
	Williams Cos. Inc.	19,010,066	575,625
	Baker Hughes Inc.	9,808,362	534,654
	Apache Corp.	8,741,813	418,995
-	Concho Resources Inc. Devon Energy Corp.	3,412,430 11,484,035	414,713 367,145
	Tesoro Corp.	3,496,518	327,274
	Hess Corp.	6,927,537	303,911
	National Oilwell Varco Inc.	8,736,016	287,764
	Noble Energy Inc.	10,062,533	284,770
	Cabot Oil & Gas Corp.	10,706,372	268,516
	EQT Corp.	3,982,785	233,351
	Marathon Oil Corp.	19,483,483	230,879
*	Cheniere Energy Inc.	4,647,202	226,365
	Targa Resources Corp.	4,934,457 2,178,650	223,037
*	Cimarex Energy Co. Diamondback Energy Inc.	2,178,650 2,252,227	204,815 200,020
	OGE Energy Corp.	4,616,105	160,594
*	Parsley Energy Inc. Class A	5,366,699	148,926
	Range Resources Corp.	5,671,610	131,411
*	Newfield Exploration Co.	4,551,542	129,537
	Helmerich & Payne Inc.	2,232,248	121,300
	HollyFrontier Corp.	4,058,494	111,487
*	Energen Corp.	2,222,621	109,731
*,^	Antero Resources Corp.	5,055,190	109,243
*,^	Chesapeake Energy Corp.	20,857,255	103,661
*	Core Laboratories NV Rice Energy Inc.	1,013,064 3,761,418	102,593 100,167
*	RSP Permian Inc.	3,083,614	99,508
	To Toman mo.	0,000,014	00,000

			Market Value
		Shares	(\$000)
	Patterson-UTI Energy Inc.	4,833,316	97,585
*	Murphy Oil Corp.	3,740,060	95,858
*,^	WPX Energy Inc. Weatherford International plc	9,101,062	87,916
*,^	First Solar Inc.	22,619,614 1,836,701	87,538 73,248
*,^	Transocean Ltd.	8,845,728	72,800
*	Southwestern Energy Co.	11,542,955	70,181
*	Continental Resources Inc.	2,151,285	69,551
*	PDC Energy Inc.	1,503,632	64,822
	PBF Energy Inc. Class A	2,508,796	55,846
*	QEP Resources Inc.	5,504,901	55,600
*	Gulfport Energy Corp.	3,751,555	55,335
	Oceaneering International Inc.	2,258,438	51,583
	Nabors Industries Ltd.	6,158,511	50,130
*,^	Ultra Petroleum Corp.	4,580,916	49,703
*	Callon Petroleum Co.	4,574,202	48,532
	McDermott International Inc.	6,476,216 8,355,988	46,434
	Whiting Petroleum Corp. C&J Energy Services Inc.	1,313,638	46,042 45,018
*	Oasis Petroleum Inc.	5,405,409	43,514
*,^	Matador Resources Co.	1,986,215	42,445
,	SM Energy Co.	2,563,551	42,376
*,^	Dril-Quip Inc.	868.321	42,374
	SemGroup Corp. Class A	1,509,974	40,769
*	NOW Inc.	2,502,131	40,234
	Pattern Energy Group Inc. Class A	1,630,734	38,877
*,^	Centennial Resource Development Inc. Class A	2,428,591	38,420
*	Laredo Petroleum Inc.	3,595,503	37,825
	Ensco plc Class A	7,041,927	36,336
*	Superior Energy Services Inc.	3,477,888	36,274
*	MRC Global Inc.	2,124,432	35,096
*,^	Extraction Oil & Gas Inc.	2,568,332	34,544
	Oil States International Inc. Delek US Holdings Inc.	1,205,041 1,184,941	32,717 31,330
*	Carrizo Oil & Gas Inc.	1,779,935	31,006
*	Rowan Cos. plc Class A	3,016,208	30,886
٨	RPC Inc.	1,504,624	30,408
*,^	SRC Energy Inc.	4,515,925	30,392
*	Chart Industries Inc.	719,024	24,972
*	Forum Energy Technologies Inc.	1,543,891	24,085
*	Unit Corp.	1,196,268	22,406
٨	Noble Corp. plc	5,909,525	21,393
*	Exterran Corp.	741,236	19,791
*	Helix Energy Solutions Group Inc.	3,348,309	18,884
	Archrock Inc.	1,537,649	17,529
	Green Plains Inc.	849,814	17,464
*,^	Diamond Offshore Drilling Inc. Basic Energy Services Inc.	1,540,794 628,544	16,687 15,651
*,^	Atwood Oceanics Inc.	1,893,973	15,436
*,^	Denbury Resources Inc.	9,985,600	15,278
*,^	Bonanza Creek Energy Inc.	450,324	14,280
*	Newpark Resources Inc.	1,887,490	13,873
*,^	Resolute Energy Corp.	462,100	13,757
*	Ring Energy Inc.	1,057,809	13,752
*,^	Par Pacific Holdings Inc.	749,856	13,527
*,^	SunPower Corp. Class A	1,438,630	13,437
*	SandRidge Energy Inc.	772,474	13,294
*	REX American Resources Corp.	135,277	13,062
*,^	Keane Group Inc.	811,913	12,991
	SEACOR Holdings Inc.	362,606 3.507.540	12,437
*,^	Halcon Resources Corp. Tellurian Inc.	2,597,540 1,166,401	11,793
,^^	Alon USA Energy Inc.	1,166,401 865,273	11,699 11,525
*,^	Sanchez Energy Corp.	1,601,665	11,525
,	Janonoz Litorgy Corp.	1,001,000	11,500

Final Residencia Final				Market Value
1° ProPertor Holding Corp. 398.09 10.936 2° Renewabile Energy Group Inc. 814.699 10.550 CVR Energy Inc. 503.79,765 10.301 CVR Energy Inc. 476.480 10.368 Energy XCR Gulf Coast Inc. 491.797 31.332 Parlametals Cul and Gast Inc. 300.222 300.223 Parlametals Cul and Gast Inc. 300.223 300.223 Stance The Resources Corp. 405.088 7.491 SEACOR Marine Holdings Inc. 332.226 7.988 SEACOR Marine Holdings Inc. 171.149 6.790 Parlies Carring Inc. 171.149 6.790 Abrasas Parloulern Corp. 303.263 7.988 Marris Service Co. 171.149 6.790 Midstance Problems Corp. 303.7161 5.934 Marris Service Co. 17.788 6.777 Midstance Resource Development Corp. 675.879 5.472 Wildstance Resource Development Corp. 675.879 5.472 Wildstance Resources Corp. 1,05.00 1,05.00 The Composities Inc. <th></th> <th></th> <th>Shares</th> <th>(\$000)</th>			Shares	(\$000)
4. Jaggeof Peak Enforgy Inc. 808,395 10,792 5. Pille Flower Inc. 5,983,786 10,595 6. Pille Flower Inc. 5,983,786 10,391 6. CVR Energy Inc. 476,469 10,386 6. Florency XX Gulf Coast Inc. 369,272 6,523 6. Florency Corp. 491,787 8133 6. Florency Corp. 92,969 7,891 6. Stack College Inc. 932,969 7,891 6. Stack College Inc. 363,263 7,396 7. Pandie Ethanol Inc. 363,263 7,396 8. Abrasia Fenoleum Corp. 363,863,111 6,008 9. Pann Virginia Gorp. 171,149 6,009 1 FIERA Enrollegies Inc. 213,1386 9,848 1 Abrasia Fenoleum Corp. 363,111 5,934 Middatatas Fenoleum Corp. 480,548 5,502 Wildfortes Resource Development Corp. 450,503 5,334 1 TI Composites Inc. 262,289 4,903 1 TI Composites Inc. 263,289 4,903 1 February Envirose Inc. 316,107 4,90	*,^	Flotek Industries Inc.	1,227,367	10,973
1. Reinewable Energy Group Inc. 814,699 10,550 CVR Energy Inc. 476,489 10,359 Energy XLS Gulf Coast Inc. 491,787 9,133 Pathandle Oil and Gas Inc. Class A 393,229 8122 Vahrand Cas Services Group Inc. 394,488 40,041 Same Energy Corp. 465,088 3,048 SEACOR Marine Holding Inc. 363,263 7,368 SEACOR Marine Holding Inc. 171,149 6,299 Pacific Energy Corp. 171,149 6,299 Pacific Energy Corp. 171,149 6,299 Pacific Energy Corp. 10,981 6,068 TETRA Technologies Inc. 171,149 6,299 Marian Service Co. 617,889 5,777 Midstates Errolum Co. Inc. 438,482 5,556 Grean Bruth Pathesis Inc. 405,549 5,502 Wildforter Feoruse Development Corp. 1,523,419 5,502 Wildforter Feoruse Development Corp. 1,523,419 5,002 Time Corp. 1,523,419 5,002 Time Corp. 1,523,419	*	0 1		
№ Pile Power Inc. 5,938,795 10,398 № Energy XXI Gulf Costs Inc. 476,489 10,388 № Energy XXI Gulf Costs Inc. 491,787 9,133 № Parhandia Gul and Gas Inc. Class A 389,229 8,529 Natural Gas Sevices Group Inc. 322,989 7,881 California Resources Corp. 405,088 7,486 California Resources Corp. 405,088 7,486 Shore Energy Corp. 405,088 7,486 Pool AV Michael Corp. 405,088 7,486 Pool AV Michael Corp. 405,088 7,486 Pool AV Michael Corp. 405,088 6,786 A Pool State Petroleum Corp. 3,663,161 5,934 Markin Scare Petroleum Corp. 3,663,161 5,934 Markin Scare Petroleum Corp. 435,286 5,364 Williafores Petroleum Corp. 435,206 5,324 Williafores Resource Development Corp. 435,206 5,324 Williafores Resource Development Corp. 435,206 5,324 Williafores Resources Corp. 1,483,106 4,972	*,^		·	
CVE Ferrey Inc.	*		,	,
*** Energy XXI Guif Coast Inc. 491,787 9.133 *** Parhondic Oli and Gas Inc. Class A 369,229 6.529 *** Natural Gas Services Group Inc. 324,486 8.084 *** Stone Energy Corp. 405,088 7,486 *** SEACOR Marine Holdings Inc. 363,263 7,396 *** Penn Virginia Corp. 171,149 6,290 *** Penn Virginia Corp. 171,149 6,290 *** Penn Virginia Corp. 368,161 5,943 *** Penn Virginia Corp. 368,161 5,943 *** Mentic Service Co. 617,899 6,978	*,^			
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California Resources Corp. 922,998 7,891 Stone Energy Corp. 406,088 7,446 SEACOR Marine Holdings Inc. 363,283 7,398 Penn Virginia Corp. 171,149 6,290 Paginia Corp. 970,891 6,088 TETRA Technologies Inc. 2,131,998 5,948 Abrassa Petroleum Corp. 3663,161 5,934 Matrix Service Co. 617,899 5,777 Midstates Petroleum Corp. 438,494 5,566 Green Brick Partners Inc. 438,494 5,566 Green Brick Partners Inc. 438,494 5,560 Evolution Petroleum Corp. 475,206 5,344 Willdforce Resource Development Corp. 16,23,419 5,002 Bill Barrett Corp. 16,23,419 5,002 Bristow Group Inc. 62,015 4,774	*		·	
St SEAOR Maine Holdings Inc. 455,088 7.486 Penn Virginia Corp. 171,149 6.290 Panfice Ethanol Inc. 170,149 6.290 TETRA Technologies Inc. 2,313,988 5,948 Abraxe Petroleum Corp. 363,161 5,934 Matrix Service Co. 617,869 5,777 Midistates Petroleum Co. Inc. 480,548 5,502 Green Brick Partners Inc. 480,548 5,502 Evolution Petroleum Corp. 675,579 5,472 Wildlorse Resources Development Corp. 1,635,006 5,334 Bill Barnet Corp. 1,635,106 4,675 Bristow Group Inc. 266,299 4,903 Bristow Group Inc. 266,299 4,903 Bristow Group Inc. 224,875 4,519 Elipse Resources Corp. 1,635,106 4,676 Tesco Corp. 1,635,106 4,676 Tesco Corp. 1,635,106 4,676 Resources Corp. 1,635,106 4,676 Resources Corp. 1,635,106 4,676 R	*,^	· ·		
SEACOR Márine Holdings Inc. 363,283 7,396 Penn Virginia Corp. 171,149 6,290 Padric Ethanol Inc. 970,891 6,088 I ETFA Fechnologies Inc. 2,131,988 5,948 Abraxas Petroleum Corp. 3,663,161 5,934 Matrix Service Co. 617,899 5,777 Miditates Petroleum Corp. 438,484 5,566 Green Brick Partners Inc. 438,484 5,566 Evolution Petroleum Corp. 675,579 5,472 Wildfors Resource Development Corp. 458,206 5,384 Bill Barrett Corp. 1,629,419 5,002 TPI Composites Inc. 262,4115 4,774 Bristow Group Inc. 624,015 4,774 Eclipse Resources Corp. 1,683,106 4,676 Key Energy Services Inc. 2,936,813 4,933 Marrent Dilling Co. 3,161,078 4,519 Key Energy Services Inc. 3,050 4,186 Key Energy Services Inc. 3,050 4,186 Gours Jack Services Corp. 3,040 4,040 <td>*,^</td> <td></td> <td>·</td> <td>,</td>	*,^		·	,
Pen Nurginia Corp. 171,149 6,290 Pacific Ethanol Inc. 2) 70,891 6,088 TETRA Technologies Inc. 2,131,888 5,348 Abrasas Petroleum Corp. 3683,161 5,934 Midistates Petroleum Co. Inc. 438,484 5,556 Grean Brick Partners Inc. 480,548 5,502 Evolution Petroleum Corp. 405,502 5,334 WildHorse Resource Development Corp. 1629,419 5,002 TPI Composites Inc. 262,289 4,903 Bill Barrett Corp. 1,635,106 4,676 Testo Corp. 1,635,106 4,676 Elipse Resources Corp. 1,635,106 4,676 Tesco Corp. 1,635,106 4,676 Vey Energy Services Inc. 234,975 4,519 Mammoth Energy Services Inc. 323,738 4,511 Service Transition Energy Inc. 325,233 4,511 Parker Drilling Co. 316,722 4,341 Gospace Technologies Corp. 30,235 4,341 Guil Island Fabrication Inc. 4,236,643	*,^			
TETRA Technologies Inc. 2,131,988 5,948 Abraxes Petroleum Corp. 617,899 5,777 Midstres Petroleum Co. Inc. 438,484 5,556 Green Brick Partners Inc. 458,684 5,556 Evolution Petroleum Corp. 675,579 5,472 WildHorse Resource Development Corp. 1,629,419 5,602 Bill Barrett Corp. 1,629,419 5,602 TPI Composites Inc. 624,2015 4,774 Bill Sarrett Corp. 1,635,106 4,676 Bristow Group Inc. 624,015 4,774 Ecilgas Resources Corp. 1,636,3106 4,676 Exercion Corp. 1,636,3106 4,676 Key Energy Services Inc. 224,875 4,519 Wammoth Energy Services Inc. 237,398 4,411 Smart Sand Inc. 467,221 4,341 Smart Sand Inc. 3,802 4,185 Geospace Technologies Corp. 3,02,250 4,185 Geospace Technologies Corp. 3,02,250 4,185 Geospace Technologies Corp. 3,02,250 4,	*,^		171,149	6,290
1. Abrawas Petroleum Corp. 3,683,161 5,934 Matrix Service Co. 617,889 5,777 Midistates Petroleum Co. Inc. 480,548 5,556 Green Birck Partners Inc. 480,548 5,502 Evolution Petroleum Corp. 675,579 5,472 WildHorse Resource Development Corp. 445,206 5,384 Bill Barrett Corp. 16,29,419 5,002 TPI Composites Inc. 262,289 4,903 Bristow Group Inc. 626,209 4,903 E Clipse Resources Corp. 1,048,313 4,665 Key Energy Services Inc. 234,875 4,519 Mammoth Energy Services Inc. 323,388 4,115 Smart Sand Inc. 487,221 4,344 Parker Drilling Co. 3,161,078 4,267 Geospace Technologies Corp. 30,2590 4,185 Gusta Exploration Inc. 30,2590 4,185 Gastar Exploration Inc. 30,2590 4,185 Gastar Exploration Inc. 30,853 3,683 Exploration Energy Corp. Cless A 10,89,267	*	Pacific Ethanol Inc.	970,891	
Matrix Service Co. \$17,7869 5,777 Green Brick Partners Inc. 438,484 5,562 Evolution Petroleum Corp. 675,579 5,472 Wildfebras Resource Development Corp. 1,629,419 5,002 Bill Barett Corp. 1,629,419 5,002 TPI Composites Inc. 285,289 4,903 Bristow Group Inc. 624,015 4,774 Eclipas Resources Corp. 1,635,106 4,676 Tesco Corp. 1,635,106 4,676 Key Energy Services Inc. 233,487 4,519 Smart Sand Inc. 487,221 4,341 Smart Sand Inc. 487,221 4,341 Smart Sand Inc. 3,161,078 4,287 Geospace Technologies Corp. 302,590 4,185 Guil Island Fabrication Inc. 3,362,373 3,843 Fee Pengy Corp. Class A 1,085,267 3,823 Gestate Exploration Inc. 4,236,643 3,923 Fee Pengy Corp. Class A 1,085,267 3,823 Gestate Exploration Inc. 1,085,267 3,823 <td>*</td> <td>TETRA Technologies Inc.</td> <td>2,131,988</td> <td>,</td>	*	TETRA Technologies Inc.	2,131,988	,
1. Midstates Petroleum Co. Inc. 438,844 5,556 Green Bick Partners Inc. 430,548 5,500 Evolution Petroleum Corp. 435,206 5,324 Bill Barrett Corp. 1,622,419 5,002 TPI Composites Inc. 262,528 4,903 E Pistow Group Inc. 624,015 4,774 E Lipse Resources Corp. 1,635,106 4,674 E Lipse Resources Corp. 1,635,106 4,676 Vey Energy Services Inc. 233,875 4,519 Vey Energy Services Inc. 233,875 4,519 Vey Energy Services Inc. 233,675 4,519 Vey Energy Services Inc. 233,675 4,511 Vey Energy Services Inc. 3,610,78 4,257 Vey Energy Services Inc. 3,610,78 4,257 Vey Energy Services Inc. 3,01,764 3,953 Gastar Exploration Inc. 4,02 4,04 Vey Exploration Inc. 4,02 4,04 Vey Exploration Inc. 4,05 4,05 E P Energy Corp. Class A 1,05 4,06 <td>*</td> <td>· ·</td> <td></td> <td></td>	*	· ·		
Geon Brück Partners Inc.	*		·	,
Feather Petter	*			
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№ EP Energy Corp. Class A 1,059,267 3,877 Pioneer Energy Services Corp. 1,875,237 3,844 Earthstone Energy Inc. Class A 368,973 3,693 Approach Resources Inc. 1,088,545 3,683 Contango Oil & Gas Co. 521,409 3,462 CARBO Ceramics Inc. 499,512 3,533 Select Energy Services Inc. Class A 271,965 3,304 Trecora Resources Inc. 924,718 3,172 SilverBow Resources Inc. 924,718 3,172 Goodrich Petroleum Corp. 241,047 2,941 Comstock Resources Inc. 413,320 2,922 Adams Resources & Energy Inc. 448,831 2,198 Willbros Group Inc. 448,831 2,198 Will Toffshore Inc. 1,017,657 1,995 Is Is Energy Inc. 488,042 2,186 Wat Toffshore Inc. 1,017,657 1,995 Is Is Is Energy Inc. 1,023,811 1,685 FuelCell Energy Inc. 1,203,811 1,685 Fuel Cell Energy Resources Inc. 570,574 <td></td> <td>Gulf Island Fabrication Inc.</td> <td>340,764</td> <td>3,953</td>		Gulf Island Fabrication Inc.	340,764	3,953
Pioneer Energy Services Corp.	*,^	Gastar Exploration Inc.	4,236,643	
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** Isramco Inc. 17,021 1,947 *^ Northern Oil and Gas Inc. 1,203,811 1,685 *^ FuelCell Energy Inc. 1,208,449 1,499 * Dawson Geophysical Co. 380,256 1,491 * Cobalt International Energy Inc. 570,574 1,409 * PHI Inc. NV 140,475 1,371 * Torchlight Energy Resources Inc. 745,993 1,238 * Hornbeck Offshore Services Inc. 412,841 1,168 * Enphase Energy Inc. 1,087,138 940 * Mitcham Industries Inc. 234,787 934 * Rosehill Resources Inc. 103,445 863 * Lonestar Resources US Inc. Class A 187,263 805 * VAALCO Energy Inc. 816,705 764	*			2,186
*** Northern Oil and Gas Inc. 1,203,811 1,685 *** FuelCell Energy Inc. 1,208,449 1,499 ** Dawson Geophysical Co. 380,256 1,491 ** Cobalt International Energy Inc. 570,574 1,409 ** PHI Inc. NV 140,475 1,371 ** Torchlight Energy Resources Inc. 745,993 1,238 ** Hornbeck Offshore Services Inc. 412,841 1,168 ** Enphase Energy Inc. 1,087,138 940 ** Mitcham Industries Inc. 234,787 934 ** Rosehill Resources Inc. 103,445 863 ** Lonestar Resources US Inc. Class A 187,263 805 * VAALCO Energy Inc. 816,705 764				
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** PHI Inc. NV 140,475 1,371 *^ Torchlight Energy Resources Inc. 745,993 1,238 *^ Hornbeck Offshore Services Inc. 412,841 1,168 *^ Enphase Energy Inc. 1,087,138 940 * Mitcham Industries Inc. 234,787 934 * Rosehill Resources Inc. 103,445 863 * Lonestar Resources US Inc. Class A 187,263 805 * VAALCO Energy Inc. 816,705 764	*		·	
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*** Enphase Energy Inc. 1,087,138 940 ** Mitcham Industries Inc. 234,787 934 ** Rosehill Resources Inc. 103,445 863 * Lonestar Resources US Inc. Class A 187,263 805 * VAALCO Energy Inc. 816,705 764				
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** Rosehill Resources Inc. 103,445 863 * Lonestar Resources US Inc. Class A 187,263 805 * VAALCO Energy Inc. 816,705 764				
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* VAALCO Energy Inc. 816,705 764	*			
	*			
	*,^	Amyris Inc.		759

			Market
		Shares	Value (\$000)
*,^	Jones Energy Inc. Class A	460,954	738
*,^	PetroQuest Energy Inc. Rex Energy Corp.	339,980	673
^	EXCO Resources Inc.	214,639 219,492	620 582
*,^	Eco-Stim Energy Solutions Inc.	352,961	441
*	PHI Inc.	40,344	412
*,^	TerraVia Holdings Inc.	1,691,956	395
*	Aemetis Inc.	206,467	277
*,^	Stone Energy Corp. Warrants Exp. 02/28/2021 Ideal Power Inc.	116,107	240
*,^	Enservoo Corp.	109,340 549,204	230 172
*,^	Gevo Inc.	238,533	164
*,^	ION Geophysical Corp.	37,409	163
*,^	Yuma Energy Inc.	118,650	110
*,^	Superior Drilling Products Inc.	113,740	72
*,^	MagneGas Corp.	51,451	63
*,^	Bonanza Creek Energy Inc. Warrants Exp. 04/28/2020 Tidewater Inc.	33,839 25,100	47 18
*	Basic Energy Services Inc. Warrants Exp. 12/23/2023	4,640	14
	Harvest Natural Resources Inc.	51,829	_
0.1	(0.00)	-	32,220,848
Otn	ner (0.0%)² Dyax Corp CVR Exp. 12/31/2019	2,750,063	5,500
*	NCS Multistage Holdings Inc.	208,579	5,252
*,^	Tobira Therapeutics Inc. CVR	201,001	2,762
*	Media General Inc. CVR	2,351,934	699
*	Adolor Corp. Rights Exp. 07/01/2019	592,629	308
*	Chelsea Therapeutics International Ltd. CVR	1,157,305	127
*	Ambit Biosciences Corp. CVR Omthera Pharmaceuticals Inc. CVR	201,330 121,311	121 73
*	Alexza Pharmaceuticals Inc. CVR	327,391	12
*	Seventy Seven Energy Inc Escrow Line	7,222	1
*	Clinical Data CVR	216,285	_
*	Gerber Scientific Inc. CVR	388,581	_
*,^	Biosante Pharmaceutical Inc. CVR	253,823	_
*	NuPathe Inc. CVR Seventy Seven Energy Inc Warrants Exp. 08/01/2023	158,681 361	_
*	Seventy Seven Energy Inc Warrants Exp. 06/01/2023 Seventy Seven Energy Inc Warrants Exp. 08/01/2021	401	_
_		-	14,855
Tec	chnology (17.3%) Apple Inc.	108,093,912	15,567,685
	Microsoft Corp.	177,774,267	12,253,980
*	Facebook Inc. Class A	54,439,512	8,219,278
*	Alphabet Inc. Class A	6,900,772	6,415,510
*	Alphabet Inc. Class C	6,740,405	6,125,208
	Intel Corp.	108,442,405	3,658,847
	Cisco Systems Inc.	115,073,238	3,601,792
	Oracle Corp. International Business Machines Corp.	70,998,449 20,536,688	3,559,862 3,159,159
	Broadcom Ltd.	9,246,345	2,154,861
	NVIDIA Corp.	13,019,830	1,882,147
	QUALCOMM Inc.	34,018,732	1,878,514
	Texas Instruments Inc.	22,968,668	1,766,980
*	Adobe Systems Inc.	11,369,884	1,608,156
*	salesforce.com Inc. Applied Materials Inc.	15,549,243 24,861,967	1,346,564 1,027,048
	Cognizant Technology Solutions Corp. Class A	13,607,565	903,542
	Intuit Inc.	5,583,632	741,562
*	Micron Technology Inc.	24,191,234	722,350
	HP Inc.	38,883,769	679,688
	Analog Devices Inc.	8,392,625	652,946
	Corning Inc. Hewlett Packard Enterprise Co.	21,338,637 38,095,629	641,226 632,006
	Western Digital Corp.	38,095,629 6,694,864	593,165
	Trootom Digital Ooip.	0,004,004	555,105

			Market Value
		Shares	(\$000)
	Lam Research Corp.	3,738,173	528,690
	DXC Technology Co.	6,508,615	499,341
*	Autodesk Inc.	4,850,053	488,982
*	Cerner Corp.	6,828,047	453,860
*	ServiceNow Inc.	3,893,266	412,686
	Skyworks Solutions Inc.	4,246,590	407,460
*	Symantec Corp. Red Hat Inc.	14,199,264 4,097,826	401,129 392,367
	Microchip Technology Inc.	4,097,826	383,026
	Xilinx Inc.	5,706,185	367,022
	KLA-Tencor Corp.	3,598,437	329,293
	Motorola Solutions Inc.	3,766,387	326,696
	Harris Corp.	2,861,729	312,157
*	Dell Technologies Inc. Class V	4,921,513	300,754
	Maxim Integrated Products Inc.	6,501,353	291,911
*	Workday Inc. Class A	3,004,771	291,463
*	Citrix Systems Inc.	3,385,026	269,380
*	Palo Alto Networks Inc.	2,007,508	268,625
	Seagate Technology plc	6,807,907	263,806
*	Synopsys Inc.	3,480,710	253,848
	NetApp Inc.	6,294,651	252,101
	CA Inc.	7,267,605	250,514
*,^	Advanced Micro Devices Inc.	19,573,188	244,273
	Juniper Networks Inc.	8,716,139	243,006
* ^	Gartner Inc.	1,961,924	242,317
*,^	Twitter Inc. ANSYS Inc.	13,432,375 1,970,061	240,037 239,717
	CDW Corp.	3,674,024	229,737
*	Cadence Design Systems Inc.	6,406,681	214,560
	CDK Global Inc.	3,356,351	208,295
*,^	VeriSign Inc.	2,087,748	194,077
*	Akamai Technologies Inc.	3,806,891	189,621
*	F5 Networks Inc.	1,483,232	188,459
*	Qorvo Inc.	2,922,097	185,027
*	Splunk Inc.	3,152,525	179,347
	Leidos Holdings Inc.	3,445,392	178,092
*	IAC/InterActiveCorp	1,701,538	175,667
*	CommScope Holding Co. Inc.	4,439,486	168,834
*,^	Arista Networks Inc.	1,075,415	161,086
	SS&C Technologies Holdings Inc.	3,999,776	153,631
*	PTC Inc.	2,657,624	146,488
	Marvell Technology Group Ltd.	8,723,212	144,107
*	Tyler Technologies Inc.	792,500	139,218
*	Teradyne Inc. Veeva Systems Inc. Class A	4,595,101 2,233,268	137,991
*	ON Semiconductor Corp.	2,233,206 9,631,949	136,922 135,233
*,^	Ultimate Software Group Inc.	640,385	134,519
,	LogMeIn Inc.	1,232,337	128,779
*	athenahealth Inc.	911,665	128,135
*	Fortinet Inc.	3,399,842	127,290
*,^	VMware Inc. Class A	1,426,529	124,721
*	Microsemi Corp.	2,647,344	123,896
	Brocade Communications Systems Inc.	9,596,631	121,014
*	ARRIS International plc	4,262,545	119,437
	CSRA Inc.	3,725,466	118,284
*	Square Inc.	5,007,869	117,485
*	Nuance Communications Inc.	6,682,917	116,350
*	Guidewire Software Inc.	1,690,668	116,166
*	NCR Corp.	2,842,137	116,073
^	Garmin Ltd.	2,170,033	110,737
*	Fair Isaac Corp.	737,114	102,761
-	Medidata Solutions Inc. Cypress Semiconductor Corp.	1,263,831 7,160,282	98,832 97,738
*	Aspen Technology Inc.	7,160,282 1,755,959	97,738 97,034
	Aspen reciliology inc.	1,700,858	37,034

			Market Value
		Shares	(\$000)
	Snap Inc.	5,459,111	97,008
	j2 Global Inc.	1,115,846	94,947
*	EPAM Systems Inc. Blackbaud Inc.	1,116,774	93,910
*	Cirrus Logic Inc.	1,091,340 1,467,048	93,582 92,013
*	Cavium Inc.	1,474,387	91,604
	DST Systems Inc.	1,459,584	90,056
	Teradata Corp.	2,973,594	87,691
	Tech Data Corp.	862,871	87,150
	ViaSat Inc.	1,266,921	83,870
*	Tableau Software Inc. Class A	1,358,314	83,224
	MKS Instruments Inc.	1,232,114	82,921
	SYNNEX Corp.	690,417	82,822
	Monolithic Power Systems Inc.	852,355	82,167
*,^	Proofpoint Inc.	943,749	81,946
*	Ellie Mae Inc.	736,504	80,949
*	Ciena Corp.	3,224,868	80,686
*	GoDaddy Inc. Class A Manhattan Associates Inc.	1,886,613	80,030
*		1,621,084	77,909 75.961
*	Lumentum Holdings Inc. Integrated Device Technology Inc.	1,331,486 2,884,052	75,961
*	Paycom Software Inc.	1,077,047	73,681
*	Entegris Inc.	3,244,499	71,217
*	CACI International Inc. Class A	563,308	70,442
*	NetScout Systems Inc.	2,016,115	69,354
	Finisar Corp.	2,542,868	66,064
	Pitney Bowes Inc.	4,294,848	64,852
*	Silicon Laboratories Inc.	911,202	62,281
*,^	Dycom Industries Inc.	681,810	61,036
*	ACI Worldwide Inc.	2,724,234	60,941
	InterDigital Inc.	784,735	60,660
	Zendesk Inc.	2,128,242	59,123
	Verint Systems Inc.	1,450,831	59,049
*	Advanced Energy Industries Inc.	908,939	58,799
	Science Applications International Corp.	804,911	55,877
*,^	FireEye Inc. Cree Inc.	3,660,666	55,679
*	Viavi Solutions Inc.	2,253,081 5,271,440	55,538 55,508
*	Semtech Corp.	5,271,440 1,504,342	53,780
*	Allscripts Healthcare Solutions Inc.	4,206,643	53,677
*	CommVault Systems Inc.	925,643	52,253
	TiVo Corp.	2,712,097	50,581
*	Electronics For Imaging Inc.	1,062,588	50,345
*	HubSpot Inc.	754,072	49,580
	Power Integrations Inc.	650,631	47,431
*,^	2U Inc.	1,010,373	47,407
*,^	3D Systems Corp.	2,524,844	47,215
*	RealPage Inc.	1,294,763	46,547
	Pegasystems Inc.	790,200	46,108
	VeriFone Systems Inc.	2,544,942	46,063
*	RingCentral Inc. Class A	1,258,666	46,004
*	Diebold Nixdorf Inc.	1,619,121	45,335
*	EchoStar Corp. Class A	725,710 1,042,699	44,051
*	Mercury Systems Inc. Cornerstone OnDemand Inc.	1,042,688 1,226,595	43,887 43,851
*	MicroStrategy Inc. Class A	1,226,595	43,851
*,^	Synaptics Inc.	828,486	42,841
*	Premier Inc. Class A	1,186,070	42,699
	Cabot Microelectronics Corp.	575,151	42,463
*	Envestnet Inc.	1,011,709	40,064
	Plantronics Inc.	764,829	40,008
*,^	Twilio Inc. Class A	1,336,025	38,892
*	Infinera Corp.	3,496,086	37,303

			Market Value
		Shares	(\$000)
	Cogent Communications Holdings Inc.	924,427	37,070
*	New Relic Inc.	834,478	35,891
*	Callidus Software Inc.	1,460,244	35,338
*,^	Xperi Corp. Oclaro Inc.	1,146,470	34,165
*	Insight Enterprises Inc.	3,631,067 823,399	33,914 32,928
	Brooks Automation Inc.	1,510,437	32,761
	Progress Software Corp.	1,059,398	32,725
*	BroadSoft Inc.	730,024	31,428
*	NETGEAR Inc.	721,443	31,094
*	Box Inc.	1,641,233	29,936
*	Rambus Inc.	2,582,720	29,520
*,^	Inphi Corp.	858,740	29,455
*,^	Ubiquiti Networks Inc.	566,693	29,451
*	Web.com Group Inc.	1,164,041	29,450
*	Gigamon Inc.	747,695	29,422
	CSG Systems International Inc.	724,332	29,393
^	Ebix Inc.	531,524	28,649
	NIC Inc.	1,491,092	28,256
*	Q2 Holdings Inc.	759,305	28,056
*	Qualys Inc.	667,010	27,214
	West Corp.	1,162,808	27,117
*,^	SPS Commerce Inc.	420,385 2,016,733	26,804 25,834
*,^	Pure Storage Inc. Class A Applied Optoelectronics Inc.	413.541	25,634
*	Five9 Inc.	1,165,253	25,033
*	ScanSource Inc.	592,424	23,875
*	Coupa Software Inc.	822,772	23,844
*	Extreme Networks Inc.	2,510,793	23,150
*	Bottomline Technologies de Inc.	888,723	22,831
	ADTRAN Inc.	1,102,995	22,777
*	CEVA Inc.	500,271	22,737
*	ePlus Inc.	304,606	22,571
*	Super Micro Computer Inc.	907,393	22,367
*	Quality Systems Inc.	1,231,189	21,189
*,^	Shutterstock Inc.	473,684	20,880
*	FormFactor Inc.	1,654,012	20,510
*	Virtusa Corp.	695,970	20,462
*	Diodes Inc.	841,479	20,221
*	Blucora Inc.	932,152	19,762
*,^	Match Group Inc.	1,111,370	19,316
*	Barracuda Networks Inc.	824,614	19,016 18,926
*,^	Amkor Technology Inc.	1,937,121 375,640	,
*	Impinj Inc. Lattice Semiconductor Corp.	2,733,421	18,275 18,205
	Monotype Imaging Holdings Inc.	968,676	17,727
*	Cray Inc.	951,290	17,504
*	CalAmp Corp.	829,859	16,871
*	Alarm.com Holdings Inc.	445,815	16,776
*	PROS Holdings Inc.	610,578	16,724
*	Synchronoss Technologies Inc.	1,008,225	16,585
*,^	Acacia Communications Inc.	397,575	16,487
*	Rudolph Technologies Inc.	701,727	16,034
*,^	Nutanix Inc.	766,933	15,454
*	Varonis Systems Inc.	414,547	15,421
*	Vocera Communications Inc.	579,200	15,302
*	Perficient Inc.	816,243	15,215
*	Photronics Inc.	1,575,614	14,811
*	Unisys Corp.	1,130,237	14,467
*	Axcelis Technologies Inc.	686,781	14,388
* *	Syntel Inc.	848,189	14,385
*,^	Gogo Inc.	1,229,664	14,178
* ^	Nanometrics Inc. Benefitfocus Inc.	539,436 373,955	13,642
*,^	Denentrocus Inc.	373,855	13,590

Ultra Clean Holdings Inc.				Market
Unit Clana Holdings Inc.			Shares	Value (\$000)
1. Loral Space & Communications Inc. 1312.040 12.965 1. Bladduline Inc. 358.971 12.830 2. Commerce-Histin Inc. 608,848 12.043 2. Commerce-Histin Inc. 608,848 11.048 2. Carbonite Inc. 608,848 11.048 2. Actual Corp. 158.879 11.778 3. Actual Corp. 158.879 11.786 4. Actual Corp. 158.879 11.786 3. Bhore Tell Inc. 867.471 11.733 4. Wooks Inc. 183.5567 10.844 4. WASCO Data Security International Inc. 494.3550 10.436 4. WASCO Data Security International Inc. 494.356 10.436 4. WASCO Data Security International Inc. 494.356 10.436 4. WASCO Data Security International Inc. 494.356 10.436 4. WASCO Data Security International Inc. 494.357 10.516 5. Web Spring Networks Inc. 914.578 10.316 6. Commerce Telecommunications Corp. 534.424 10.238 6. Commerce Telecommunications Corp. 10.516 10.516 <td>*</td> <td>Ultra Clean Holdings Inc.</td> <td></td> <td></td>	*	Ultra Clean Holdings Inc.		
1. Euckerson Inc. 1,167,332 1,2841 2. Blackine Inc. 358,971 1,2830 3. Boring Wireless Inc. 60,447 12,424 4. Carmonate Inc. 550,411 11,977 4. Carmonate Inc. 358,171 11,977 5. Instructure Inc. 385,644 11,376 6. Instructure Inc. 887,471 11,376 7. Instructure Inc. 887,471 11,373 8. Hortoworks Inc. 887,471 11,373 8. Hortoworks Inc. 183,850 10,644 VASCO Data Security International Inc. 483,850 10,644 VASCO Data Security International Inc. 383,492 10,336 3. Elementary Inc. 383,493 10,336 Computer Programs & Systems Inc. 383,493 10,233 Computer Programs & Systems Inc. 303,789 9,964 DKYS Corp. 198,457 9,881 Kay W Holding Corp. 1,01,1152 9,828 Dipimar Corp. 242,212 9,725 Corbu Inc. 11,077,295 9,884	*		•	
8 Diago Wireless Inc. 890.474 12.424 Carthorite Inc. 690.888 12.426 Carthorite Inc. 549.411 11.977 Actar Gorp. 1,222.687 11.946 Instructure Inc. 383.879 11.736 Hottorworks Inc. 385.644 11.736 Shore I II Inc. 867.471 11.173 Commeth Telecommunications Corp. 538.444 10.233 Everbridge Inc. 416.795 10.153 PID F Solutions Inc. 613.546 10.093 Zomputer Programs & Systems inc. 303.769 9.94 KeyW Holding Corp. 613.546 10.93 Dial Inc. 613.546 10.93 Sour Seems Revorks Inc. 227.212 37.25 Computer Floregame & Systems Inc. 10.213.9	*			
c Carbonic Inc. 690,848 12,049 c Carbon Ion. 594,411 11,979 c Corera Corp. 12,22,687 11,946 c Actua Corp. 386,879 11,766 in Instructure Inc. 385,644 11,376 in Formation Inc. 385,067 10,644 Workse Inc. 583,550 10,446 Workse Inc. 583,550 10,446 Workse Inc. 583,550 10,446 Workse Inc. 583,550 10,448 Workse Inc. 583,550 10,644 Workse Inc. 583,544 10,233 Commeter Fleatment Interest Corp. 583,454 10,233 Computer Programs & Systems Inc. 303,769 9,964 IXYS Corp. 599,457 ,981 IXYS Corp. 599,457 ,981 IXYS Corp. 599,457 ,981 IXYS Corp. 599,457 ,981 IXYS Corp. 1,961,152 9,228 Diginare Corp. 1,961,152 9,228 Oblu Inc.	*	Blackline Inc.	358,971	12,830
c Carbonite Inc. 549,411 1,1977 A Card Corp. 1,222,687 1,1946 A Card Corp. 838,879 11,786 Hottonworks Inc. 386,644 11,376 Hottonworks Inc. 887,471 11,173 Works Inc. 185,5067 10,446 Works Inc. 146,578 10,446 SAC Spring Networks Inc. 141,678 10,446 Computer Telecommunications Corp. 539,424 10,233 Everbridge Inc. 416,795 10,132 PDF Solutions Inc. 613,546 10,033 Computer Programs & Systems Inc. 303,769 9,984 KeyW Holding Corp. 599,457 9,861 KeyW Holding Corp. 1,911,522 9,292 Diginnare Corp. 242,212 9,725 Corbu Inc. 613,564 9,675 Endurance International Group Holdings Inc. 1,144,014 9,555 Foresters Research Inc. 1,213,596 9,032 Vactor Inc. 1,213,596 9,032 Foresters Research Inc.	*		•	
1. Karera Corp. 1,222,687 11,946 Actua Corp. 638,879 11,766 1. Hortoworks Inc. 395,644 11,376 1. Hortoworks Inc. 18,835,087 10,644 Workvall Fine. 18,835,087 10,644 Workvall Security Informational Inc. 548,350 10,444 Workvall Security Informational Inc. 548,350 10,444 Workvall Security Informational Inc. 548,350 10,338 Silver Spring Networks Inc. 918,574 10,331 Commoth Tolecommunications Corp. 416,764 10,153 PDF Scalitorius Inc. 130,348 10,153 Computer Programs & Systems Inc. 303,769 9,964 IXYS Corp. 599,487 9,861 IXYS Corp. 599,487 9,861 IXYS Corp. 599,487 9,861 IXYS Corp. 599,487 9,861 IXYS Corp. 1,961,152 9,828 IXYS Corp. 2,92,212 9,725 Colu Inc. 1,051,152 9,828 IXYS Corp.	*			
1. Autur Corp. 338,79 11,786 2. Hottorworks Inc. 385,644 11,376 3. Shorefal Inc. 387,077 11,173 4. Workiva Inc. 548,350 10,644 5. Workiva Inc. 254,350 10,446 4. WASCO Data Security International Inc. 354,350 10,446 5. Silver Spring Networks Inc. 391,4578 10,338 Comtect Inflaeommunications Corp. 391,4578 10,338 Febrologie Inc. 416,7598 10,153 Febrologie Inc. 416,7598 10,163 Complex Programs & Systems Inc. 30,769 9,898 Complex Programs & Systems Inc. 30,769 9,898 Complex Programs & Systems Inc. 30,769 9,898 Diginare Corp. 242,212 9,725 Cohu Inc. 613,544 9,558 Forbid Line Group Holdings Inc. 1,144,014 9,553 Forbid Line Group Holdings Inc. 1,144,014 9,553 Forbid Line Group Inc. 1,20,145 9,657 Cohu Inc. 1,20,145 9,652	*		•	
in Instructure Inc. 385,44 11,376 in Hortoworks Inc. 1,835,087 10,446 in Workiva Inc. 18,835,00 10,446 in Workiva Inc. 18,835,00 10,436 in Workiva Inc. 1914,678 10,136 in Workiva Inc. 1914,678 10,316 in Workiva Inc. 1914,678 10,153 in Workiva Inc. 1914,679 10,153 in Workiva Inc. 1914,678 10,163 in Workiva Inc. 1914,679 10,153 in Workiva Inc. 1914,678 10,163 in Workiva Inc. 1914,678 10,163 in Workiva Inc. 1914,678 19,667 </td <td>*</td> <td></td> <td></td> <td></td>	*			
1+ Hortomworks Inc. 1867,471 11,173 2+ Workiva Inc. 1835,687 10,644 2+ Workiva Inc. 2548,350 10,446 2+ Workiva Inc. 2548,350 10,436 3+ Was CD bate security International Inc. 314,678 10,336 3+ Workiva Inc. 314,678 10,336 2- Eventridige Inc. 416,795 10,153 2- Eventridige Inc. 416,795 10,153 3- Computer Programs & Systems Inc. 303,769 9,964 3- Kys Corp. 999,457 9,861 3- Kys Corp. 10,511,152 9,888 3- Work Michiging Corp. 1,051,152 9,889 3- Endurance International Group Holdings Inc. 1,144,014 9,553 5- Endurance International Group Holdings Inc. 1,144,014 9,553 6- Endurance International Group Holdings Inc. 1,144,014 9,553 7- Endurance International Group Holdings Inc. 1,144,014 9,553 8- Endurance International Group Holdings Inc. 1,140,014 9,553 8- Endurance International Group Holdings Inc. 1,140,014	*			
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Contech Telecommunications Corp.	*			
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* Telenav Inc. 699,069 5,662 * Ichor Holdings Ltd. 273,639 5,517 * AXT Inc. 866,393 5,502 * Digi International Inc. 538,100 5,462 * Kopin Corp. 1,461,514 5,422 * Ominto Inc. 350,905 5,351 * Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	,		•	
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* AXT Inc. 866,393 5,502 * Digi International Inc. 538,100 5,462 * Kopin Corp. 1,461,514 5,422 * Ominto Inc. 350,905 5,351 * Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	*			
* Digi International Inc. 538,100 5,462 * Kopin Corp. 1,461,514 5,422 * Ominto Inc. 350,905 5,351 * Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	*	<u> </u>		
* Kopin Corp. 1,461,514 5,422 * Ominto Inc. 350,905 5,351 * Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	*		•	
** Ominto Inc. 350,905 5,351 * Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	*			
* Quantum Corp. 670,754 5,239 * Presidio Inc. 362,051 5,181	*,^			
* Presidio Inc. 362,051 5,181	*		•	
	*			
	*	CommerceHub Inc. Class A		

			Market
_		Shares	Value (\$000)
*	DSP Group Inc.	434,380	5,039
*	Brightcove Inc.	811,616	5,032
*	Upland Software Inc.	228,331	5,021
*	Exa Corp.	355,577	4,907
*	Rosetta Stone Inc.	441,087	4,755
*	RigNet Inc.	292,541	4,695
*,^	Castlight Health Inc. Class B VirnetX Holding Corp.	1,111,310	4,612
*	Limelight Networks Inc.	1,002,861 1,565,019	4,563 4,523
*	USA Technologies Inc.	793,653	4,323
*	VOXX International Corp. Class A	492,421	4,038
*	Amber Road Inc.	467,647	4,008
*,^	Yext Inc.	282,274	3,763
*	GSI Technology Inc.	473,112	3,719
*	ARI Network Services Inc.	517,495	3,648
*	KVH Industries Inc.	383,652	3,645
	AstroNova Inc.	277,611	3,637
*,^	QuickLogic Corp.	2,487,550	3,632
*	NCI Inc. Class A	169,742	3,582
	Simulations Plus Inc.	286,767	3,542
*	Sigma Designs Inc.	587,441	3,437
*	Guidance Software Inc.	518,568	3,428
*,^	Pixelworks Inc.	717,621	3,294
*,^	Alteryx Inc. Class A Clearfield Inc.	168,465	3,288
*,^	SecureWorks Corp. Class A	241,306 340,081	3,185 3,159
*	Radisys Corp.	825,027	3,102
	TESSCO Technologies Inc.	231,449	3,078
*	Agilysys Inc.	300,463	3,041
	Computer Task Group Inc.	540,202	3,020
*,^	Park City Group Inc.	231,390	2,811
*	Ooma Inc.	349,647	2,797
	PC-Tel Inc.	394,160	2,791
*	Aerohive Networks Inc.	548,825	2,744
*,^	Airgain Inc.	188,048	2,667
*	Appian Corp.	141,000	2,559
*	Datawatch Corp.	264,099	2,456
*	Rightside Group Ltd.	227,052	2,411
	Key Tronic Corp.	315,335	2,233
*	Amtech Systems Inc. Tabula Rasa HealthCare Inc.	262,390 146,500	2,215 2,205
*	Aware Inc.	403,542	2,203
	Preformed Line Products Co.	44,113	2,048
*	Pendrell Corp.	278,498	2,014
*,^	Rocket Fuel Inc.	727,253	2,000
*,^	Everspin Technologies Inc.	99,502	1,988
*	BSQUARE Corp.	346,199	1,939
*	Edgewater Technology Inc.	280,893	1,918
	TransAct Technologies Inc.	217,895	1,852
*,^	Neurotrope Inc.	195,129	1,828
	Great Elm Capital Group Inc.	525,638	1,787
	Concurrent Computer Corp.	234,282	1,579
*	PAR Technology Corp.	184,738	1,576
*	Aehr Test Systems	391,907	1,470
-	Tremor Video Inc. GlobalSCAPE Inc.	562,379 254,655	1,400 1,347
^	ClearOne Inc.	254,655 141,648	1,347
*	RCM Technologies Inc.	257,001	1,339
	Network-1 Technologies Inc.	304,119	1,293
*	ID Systems Inc.	210,131	1,288
*	Covisint Corp.	523,547	1,283
*	Synacor Inc.	340,536	1,243
*	MRV Communications Inc.	125,429	1,235
*,^	CVD Equipment Corp.	110,562	1,224

		CI.	Market Value
		Shares	(\$000)
*	iPass Inc.	874,224	1,154
*	Support.com Inc.	473,810	1,109
*,^	SITO Mobile Ltd.	291,495	1,081
	QAD Inc. Class B	38,958	1,046
*	LRAD Corp.	587,032	992
*	Netlist Inc.	947,442	966
*,^	Atomera Inc.	215,867	930
*	lcad Inc.	215,339	902
*,^	Neonode Inc.	825,186	891
*	Data I/O Corp.	108,812	865
*	Aviat Networks Inc.	49,028	853
	GSE Systems Inc.	275,429	813
*,^	Inseego Corp.	509,481	637
*,^	TransEnterix Inc.	893,571	634
	Identiv Inc.	115,472	606
*	Seachange International Inc.	227,144	604
*,^	ParkerVision Inc.	326,371	584
	Tintri Inc.	80,300	584
*,^	Xplore Technologies Corp.	291,547	569
	Finjan Holdings Inc.	169,342	555
*	inTEST Corp.	82,255	551
*,^	Marin Software Inc.	410,026	533
*,^	WidePoint Corp.	1,102,888	507
	RELM Wireless Corp.	128,863	490
	Evolving Systems Inc.	86,477	445 435
*	Adesto Technologies Corp. DASAN Zhone Solutions Inc.	95,690 68,570	435
*	Lantronix Inc.	·	396
*	Intermolecular Inc.	162,376 401,809	374
*	Westell Technologies Inc. Class A	113,564	355
*	Inuvo Inc.	342,961	350
	CSP Inc.	342,901	331
*,^	Resonant Inc.	73,139	324
*,^	Sunworks Inc.	181,082	317
	Communications Systems Inc.	72,826	317
*	Qumu Corp.	107,637	314
*	SharpSpring Inc.	63,634	288
*	FalconStor Software Inc.	694,509	180
*	Streamline Health Solutions Inc.	158,937	170
*,^	Intellicheck Inc.	42,276	164
*	Numerex Corp. Class A	32,302	159
*	Sajan Inc.	26,258	153
*	BroadVision Inc.	34,623	152
*	Smith Micro Software Inc.	93,835	137
*,^	NXT-ID Inc.	42,701	81
*	Sonic Foundry Inc.	17,328	67
*	FORM Holdings Corp.	31,359	52
*	ARC Group Worldwide Inc.	17,147	50
*	ADDvantage Technologies Group Inc.	29,519	48
*,^	Fusion Telecommunications International Inc.	31,890	46
*	Determine Inc.	17,103	45
*	Ciber Inc.	401,000	26
*	Socket Mobile Inc.	6,400	26
*	NetSol Technologies Inc.	6,400	25
*	Mastech Digital Inc.	3,680	24
	GlassBridge Enterprises Inc.	2,673	11
*	Intelligent Systems Corp.	1,383	5
*	Cinedigm Corp. Class A	800	1
			100,374,987
Tel	ecommunications (2.0%)	444 540 005	E 0 40 E 45
	AT&T Inc.	141,546,385	5,340,545
	Verizon Communications Inc.	93,920,728	4,194,500
	T-Mobile US Inc.	6,675,745	404,684
*	Level 3 Communications Inc.	6,618,207	392,460

			Market Value
		Shares	(\$000)
	CenturyLink Inc.	12,527,249	299,151
*,^	Sprint Corp.	13,730,229	112,725
*	Zayo Group Holdings Inc.	3,639,403	112,457
	Telephone & Data Systems Inc.	2,178,359	60,449
	Shenandoah Telecommunications Co.	1,085,208	33,316
^	Frontier Communications Corp.	28,340,499	32,875
	Vonage Holdings Corp. 8x8 Inc.	4,524,515 2,030,242	29,590 29,540
*	Straight Path Communications Inc. Class B	153,742	27,620
	Consolidated Communications Holdings Inc.	1,158,880	24,881
*,^	Iridium Communications Inc.	2,019,070	22,311
*,^	Globalstar Inc.	10,284,009	21,905
*	GTT Communications Inc.	657,896	20,822
*	General Communication Inc. Class A	567,903	20,808
	Cincinnati Bell Inc.	995,236	19,457
*	ORBCOMM Inc.	1,707,130	19,291
	ATN International Inc.	265,217	18,151
	Windstream Holdings Inc.	4,595,190	17,829
*	United States Cellular Corp.	350,459	13,430
*	FairPoint Communications Inc.	625,224	9,785
*	Lumos Networks Corp.	534,063	9,544
	Spok Holdings Inc.	463,911	8,211
*	Hawaiian Telcom Holdco Inc.	288,954	7,221
*	pdvWireless Inc.	254,420	5,928
*	IDT Corp. Class B	411,410 805,102	5,912
*	HC2 Holdings Inc. Alaska Communications Systems Group Inc.	1,187,621	4,734 2,613
*,^	Intelsat SA	527,613	1,614
*	Otelco Inc. Class A	8,730	67
*,^	CPS Technologies Corp.	2,000	2
1.14:1	lities (3.1%)		11,324,428
UJIII			
•		10 800 289	1 513 444
	NextEra Energy Inc.	10,800,289 16.122.704	1,513,444 1.347.697
	NextEra Energy Inc. Duke Energy Corp.	16,122,704	1,347,697
•	NextEra Energy Inc.		
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc.	16,122,704 14,506,917	1,347,697 1,111,665
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829	1,347,697 1,111,665 1,096,313 787,899 781,097
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp.	16,122,704 14,506,917 22,897,103 11,341,572	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563
	NextEra Énergy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938
	NextEra Énergy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930
	NextEra Énergy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. CMS Energy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 586,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. CMS Energy Corp. CMS Energy Corp. CenterPoint Energy Inc. Pinnacle West Capital Corp. Alliant Energy Corp. Atmos Energy Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp. Atmos Energy Corp. SCANA Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185 2,942,196	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086 197,157
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp. SCANA Corp. UGI Corp.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185 2,942,196 3,945,730	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086 197,157 191,013
	NextEra Énergy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp. SCANA Corp. UGI Corp. NiSource Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185 2,942,196 3,945,730 7,395,405	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086 197,157 191,013 187,547
	NextEra Energy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp. SCANA Corp. UGI Corp. NiSource Inc. Westar Energy Inc. Class A	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185 2,942,196 3,945,730 7,395,405 3,269,005	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086 197,157 191,013 187,547 173,323
	NextEra Énergy Inc. Duke Energy Corp. Dominion Energy Inc. Southern Co. American Electric Power Co. Inc. PG&E Corp. Exelon Corp. Sempra Energy PPL Corp. Edison International Consolidated Edison Inc. Xcel Energy Inc. Public Service Enterprise Group Inc. WEC Energy Group Inc. Eversource Energy DTE Energy Co. American Water Works Co. Inc. Entergy Corp. Ameren Corp. FirstEnergy Corp. CMS Energy Corp. CenterPoint Energy Inc. ONEOK Inc. Pinnacle West Capital Corp. Alliant Energy Corp. SCANA Corp. UGI Corp. NiSource Inc.	16,122,704 14,506,917 22,897,103 11,341,572 11,768,829 21,298,117 5,766,360 15,658,189 7,493,875 7,030,824 11,714,865 11,643,766 7,273,114 7,286,855 4,146,640 4,097,384 4,113,541 5,550,884 10,192,503 6,409,367 9,406,961 4,830,107 2,535,578 5,224,835 2,424,185 2,942,196 3,945,730 7,395,405	1,347,697 1,111,665 1,096,313 787,899 781,097 768,223 650,157 605,346 585,946 568,231 537,478 500,798 446,424 442,385 438,673 319,391 315,797 303,467 297,213 296,433 257,563 251,938 215,930 209,882 201,086 197,157 191,013 187,547

			Market Value
		Shares	(\$000)
	Aqua America Inc.	4,065,477	135,380
	NRG Energy Inc.	7,189,531	123,804
*	Vistra Energy Corp.	6,722,972	112,879
*	Calpine Corp.	8,306,438	112,386
	Vectren Corp.	1,911,785	111,725
	National Fuel Gas Co.	1,853,933	103,524
	IDACORP Inc.	1,157,451	98,788
	WGL Holdings Inc.	1,182,387	98,647
	Portland General Electric Co.	2,046,771	93,517
	ONE Gas Inc.	1,212,583	84,650
	ALLETE Inc.	1,155,538	82,829
	Black Hills Corp.	1,223,987	82,582
	Hawaiian Electric Industries Inc.	2,490,861	80,654
	New Jersey Resources Corp.	1,974,181	78.375
	Southwest Gas Holdings Inc.	1,026,407	74,989
	Spire Inc.	1,014,139	70.736
	PNM Resources Inc.	1,809,691	69,221
	Avangrid Inc.	1,523,046	67,242
	NorthWestern Corp.	1,095,976	66,876
	Avista Corp.	1,518,802	64.488
	South Jersey Industries Inc.	1,822,483	62,274
	Ormat Technologies Inc.	960,514	56,363
	MGE Energy Inc.	853,326	54,912
	El Paso Electric Co.	933,904	48,283
	California Water Service Group	1,144,391	42,114
	Northwest Natural Gas Co.	653.763	39.128
	American States Water Co.	821,502	38,947
	Chesapeake Utilities Corp.	350.336	26,258
*	TerraForm Power Inc. Class A	2,100,809	25,210
*	Dynegy Inc.	2,700,809	23,083
	Unitil Corp.		19,894
	SJW Group	411,798 378.503	18,615
	Connecticut Water Service Inc.	,	-,
		331,515	18,402
*,^	Middlesex Water Co. Sunrun Inc.	378,375	14,984
-,/\		1,901,437	13,538
	York Water Co.	388,158	13,527
*,^	Artesian Resources Corp. Class A	226,947	8,542
*,^	Cadiz Inc.	536,196	7,239
	Delta Natural Gas Co. Inc.	191,597	5,838
*	Atlantic Power Corp.	2,383,931	5,721
٨	Spark Energy Inc. Class A	272,392	5,121
	Gas Natural Inc.	346,811	4,474
*,^	AquaVenture Holdings Ltd.	254,674	3,879
*	Pure Cycle Corp.	483,835	3,750
	Genie Energy Ltd. Class B	367,730	2,802
*	US Geothermal Inc.	379,871	1,744
*,^	Vivint Solar Inc.	181,914	1,064
			18,285,866
Tot	tal Common Stocks (Cost \$383,575,329)		577,792,891

				Market Value
	Coupon		Shares	(\$000)
Temporary Cash Investments (1.1%) ¹				
Money Market Fund (1.1%) 3.4 Vanguard Market Liquidity Fund	1.181%		63,822,793	6,383,556
		Maturity Date	Face Amount (\$000)	
U.S. Government and Agency Obligations (0.0%) United States Treasury Bill United States Treasury Bill United States Treasury Bill	0.602% 0.918% 0.978%-0.980%	7/13/17 9/14/17 10/5/17	500 52,000 113,100	500 51,899 112,799 165,198
Total Temporary Cash Investments (Cost \$6,548,067)				6,548,754
Total Investments (100.6%) (Cost \$390,123,396)				584,341,645
Other Assets and Liabilities—Net (-0.6%) ^{4,6}				(3,313,515)
Net Assets (100%)				581,028,130

- Non-income-producing security.
- ^ Includes partial security positions on loan to broker-dealers. The total value of securities on loan is \$2,692,354,000.
- 1 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 0.6%, 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 \$2,869,824,000 of collateral received for securities on loan, of which \$4,245,000 is held in cash.
- 5 Securities with a value of \$115,846,000 have been segregated as initial margin for open futures contracts.
- 6 Cash with a value of \$520,000 has been segregated as collateral for open over-the-counter swap contracts. CVR—Contingent Value Rights.
 - REIT—Real Estate Investment Trust.