

Annual Report | December 31, 2019

Vanguard Total Stock Market Index Fund

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

Important information about access to shareholder reports

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

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

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

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

A Note From Our Chairman



Tim Buckley
Chairman and Chief Executive Officer

Dear Shareholder,

Recent volatility in financial markets— affecting stocks, bonds, and commodities— has been a good reminder of the wise old adage, "Never keep all your eggs in one basket." Maintaining balance and diversification in your investment portfolio can help to both limit risk and set you up for long-term success.

It's understandable why some investors might become complacent after a long market run-up like the one that lifted stock prices, especially U.S. stock prices, in the years following the global financial crisis. But failing to rebalance regularly can leave a portfolio with a much different mix of assets than intended and, often, more risk than intended.

Balance across and diversification within asset classes are powerful tools for managing risk and achieving your investment goals. A portfolio's allocation will determine a large portion of its long-term return and also the majority of its volatility risk. A well-diversified portfolio is less vulnerable to significant swings in the performance of any one segment of the asset classes in which it invests.

Balance and diversification will never eliminate the risk of loss, nor will they guarantee positive returns in a declining market. But they may reduce the chance that you'll suffer disproportionate losses in one particular high-flying asset class or sector when it comes back to earth. And exposure to all key market components should give you at least some participation in the sectors that are performing best at any given time.

Vanguard is committed to helping you achieve balance and diversification in your portfolios to help meet your investment goals. We thank you for your continued loyalty.

Sincerely,

Mortimer J. Buckley Chairman and Chief Executive Officer January 23, 2020

Your Fund's Performance at a Glance

- The broad U.S. stock market returned about 31% for the 12 months ended December 31, 2019. Growth stocks outperformed value, and large-capitalization stocks bested small- and mid-caps.
- Reflecting this environment, Vanguard Total Stock Market Index Fund returned better than 30% for all share classes.
- The fund, which offers investors exposure to every segment, size, and style of the U.S. equity market, closely tracked its target index, the CRSP US Total Market Index.
- All ten of the fund's sectors recorded positive returns, with technology, financials, and industrials contributing most to results.

Market Barometer

Warket Baroffictor		Average Annual	Total Returns
	Per	iods Ended Decer	
	One Year	Three Years	Five Years
Stocks			
Russell 1000 Index (Large-caps)	31.43%	15.05%	11.48%
Russell 2000 Index (Small-caps)	25.53	8.59	8.23
Russell 3000 Index (Broad U.S. market)	31.02	14.57	11.24
FTSE All-World ex US Index (International)	21.81	9.96	5.83
Bonds			
Bloomberg Barclays U.S. Aggregate Bond Index (Broad taxable market)	8.72%	4.03%	3.05%
Bloomberg Barclays Municipal Bond Index (Broad tax-exempt market)	7.54	4.72	3.53
FTSE Three-Month U.S. Treasury Bill Index	2.25	1.65	1.04
СРІ			
Consumer Price Index	2.29%	2.10%	1.82%

About Your Fund's Expenses

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

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

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

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

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

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

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

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

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

Six Months Ended December 31, 2019

Total Stock Market Index Fund	Beginning Account Value 6/30/2019	Ending Account Value 12/31/2019	Expenses Paid During Period
Based on Actual Fund Return			
Investor Shares	\$1,000.00	\$1,101.40	\$0.74
ETF Shares	1,000.00	1,101.99	0.16
Admiral™ Shares	1,000.00	1,101.93	0.21
Institutional Shares	1,000.00	1,101.97	0.16
Institutional Plus Shares	1,000.00	1,102.02	0.11
Institutional Select Shares	1,000.00	1,102.11	0.05
Based on Hypothetical 5% Yearly Return			
Investor Shares	\$1,000.00	\$1,024.50	\$0.71
ETF Shares	1,000.00	1,025.05	0.15
Admiral Shares	1,000.00	1,025.00	0.20
Institutional Shares	1,000.00	1,025.05	0.15
Institutional Plus Shares	1,000.00	1,025.10	0.10
Institutional Select Shares	1,000.00	1,025.16	0.05

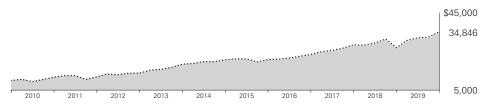
The calculations are based on expenses incurred in the most recent six-month period. The fund's annualized six-month expense ratios for that period are 0.14% for Investor Shares, 0.03% for ETF Shares, 0.04% for Admiral Shares, 0.03% for Institutional Shares, 0.02% for Institutional Plus Shares, and 0.01%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

Total Stock Market Index Fund

Performance Summary

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

Cumulative Performance: December 31, 2009, Through December 31, 2019 Initial Investment of \$10.000



Average Annual Total Returns Periods Ended December 31, 2019

_	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Investor Shares	30.65%	11.08%	13.30%	\$34,846
Spliced Total Stock Market Index	30.84	11.21	13.44	35,295

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

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund ETF Shares Net Asset Value	30.80%	11.21%	13.43%	\$35,257
Total Stock Market Index Fund ETF Shares Market Price	30.80%	11.20%	13.42%	34,240
Spliced Total Stock Market Index	30.84	11.21	13.44	35,295

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Admiral Shares	30.80%	11.19%	13.42%	\$35,242
Spliced Total Stock Market Index	30.84	11.21	13.44	35,295

Average Annual Total Returns	
Periods Ended December 31, 2019	

	Periods Ended December 31, 2019			
	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Total Stock Market Index Fund Institutional Shares	30.81%	11.21%	13.43%	\$17,629,299
Spliced Total Stock Market Index	30.84	11.21	13.44	17,647,701

	One Year	Since Inception (4/28/2015)	Final Value of a \$100,000,000 Investment
Total Stock Market Index Fund Institutional Plus Shares	30.82%	11.15%	\$163,915,340
CRSP US Total Market Index	30.84	11.14	163,849,430
10: 1 2 1 4 1 1 1 1 1 1 2 1 1 2 2 1 1			

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

	One Year	Since Inception (6/27/2016)	Final Value of a \$5,000,000,000 Investment
Total Stock Market Index Fund Institutional Select Shares	30.84%	16.67%	\$8,592,519,500
CRSP US Total Market Index	30.84	16.66	8,587,990,000

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

Cumulative Returns of ETF Shares: December 31, 2009, Through December 31, 2019

	One Year	Five Years	Ten Years
Total Stock Market Index Fund ETF Shares Market Price	30.80%	70.02%	252.40%
Total Stock Market Index Fund ETF Shares Net Asset Value	30.80	70.08	252.57
Spliced Total Stock Market Index	30.84	70.11	252.95

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

Sector Diversification

As of December 31, 2019

Basic Materials	2.2%
Consumer Goods	7.9
Consumer Services	13.3
Financials	19.4
Health Care	13.0
Industrials	13.2
Oil & Gas	4.1
Technology	21.8
Telecommunications	1.9
Utilities	3.2

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

The Industry Classification Benchmark ("ICB") is owned by FTSE. FTSE does not accept any liability to any person for any loss or damage arising out of any error or omission in the ICB.

Financial Statements

Statement of Net Assets—Investments Summary

As of December 31, 2019

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 files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) four times in each fiscal year. For the second and fourth quarters the complete list of the fund's holdings is available on vanguard.com and on Form N-CSR, or you can have it mailed to you without charge by calling 800-662-7447. For the first and third quarters of each fiscal year, the complete list of the fund's holdings is available as an exhibit to its reports on Form N-PORT. The fund's Form N-CSR and Form N-PORT reports are available on the SEC's website at www.sec.gov.

	Shares	Market Value* (\$000)	Percentage of Net Assets
Common Stocks		(4000)	
Basic Materials †		19,444,965	2.2%
Consumer Goods			
Procter & Gamble Co.	70,247,910	8,773,964	1.0%
Coca-Cola Co.	108,645,223	6,013,513	0.7%
PepsiCo Inc.	39,282,426	5,368,729	0.6%
Philip Morris International Inc.	43,826,136	3,729,166	0.4%
NIKE Inc. Class B	35,096,598	3,555,636	0.4%
Consumer Goods—Other †		43,343,780	4.8%
		70,784,788	7.9%
Consumer Services			
* Amazon.com Inc.	11,871,374	21,936,400	2.4%
Walt Disney Co.	50,771,905	7,343,141	0.8%
Home Depot Inc.	30,725,148	6,709,758	0.8%
Comcast Corp. Class A	127,898,595	5,751,600	0.6%
Walmart Inc.	40,068,176	4,761,702	0.5%
McDonald's Corp.	21,217,409	4,192,772	0.5%
* Netflix Inc.	12,347,098	3,995,150	0.5%
Costco Wholesale Corp.	12,386,682	3,640,694	0.4%
§ Consumer Services—Other †		60,388,551	6.7%
		118,719,768	13.2%
Financials			
* Berkshire Hathaway Inc. Class B	53,368,129	12,087,881	1.4%
JPMorgan Chase & Co.	83,026,240	11,573,858	1.3%
Visa Inc. Class A	48,235,974	9,063,540	1.0%
Bank of America Corp.	228,004,607	8,030,322	0.9%
Mastercard Inc. Class A	25,281,635	7,548,843	0.8%
Wells Fargo & Co.	107,227,939	5,768,863	0.6%
Citigroup Inc.	61,482,908	4,911,870	0.6%

			Market	Percentage
			Value*	of Net
		Shares	(\$000)	Assets
*	Berkshire Hathaway Inc. Class A	1,041	353,513	0.0%
1	Great Ajax Corp.	1,620,172	23,995	0.0%
1	Safequard Scientifics Inc.	1,047,764	11,504	0.0%
1	Spirit MTA REIT	2,854,330	2,191	0.0%
§	Financials—Other †		114,711,344	12.8%
			174,087,724	19.4%
He	alth Care			
	Johnson & Johnson	74,147,917	10,815,957	1.2%
	UnitedHealth Group Inc.	26,689,357	7,846,137	0.9%
	Merck & Co. Inc.	71,739,055	6,524,667	0.7%
	Pfizer Inc.	155,931,076	6,109,380	0.7%
	Abbott Laboratories	49,821,309	4,327,479	0.5%
	Medtronic plc	37,757,947	4,283,639	0.5%
	Bristol-Myers Squibb Co.	65,941,862	4,232,808	0.5%
	Amgen Inc.	16,741,329	4,035,832	0.4%
	AbbVie Inc.	41,653,636	3,688,013	0.4%
	Thermo Fisher Scientific Inc.	11,297,406	3,670,188	0.4%
Š	Health Care—Other †		61,329,572	6.8%
			116,863,672	13.0%
Ind	dustrials	45.000.044		0.00/
	Boeing Co.	15,062,314	4,906,699	0.6%
	Accenture plc Class A	17,886,881	3,766,441	0.4%
*	United Technologies Corp.	24,306,428	3,640,131	0.4%
	PayPal Holdings Inc.	33,082,634	3,578,549	0.4%
	Honeywell International Inc.	20,133,795	3,563,682	0.4%
* 1	Union Pacific Corp.	19,557,102	3,535,728	0.4%
۱,	Perma-Pipe International Holdings Inc. Industrials—Other †	465,028	4,362	0.0%
3	industrials—Other 1		94,589,357	10.5%
Οi	I & Gas		117,584,949	13.1%
Oi	Exxon Mobil Corp.	119,196,797	8,317,553	0.9%
	Chevron Corp.	53,266,865	6,419,190	0.7%
§	Oil & Gas—Other †	00,200,000	21,524,980	2.4%
			36,261,723	4.0%
			00,201,720	,
\$,2	Other †		4,162	0.0%
То	chnology			
16	Microsoft Corp.	214,894,399	33,888,847	3.8%
	Apple Inc.	112,647,486	33,000,047	3.7%
*	Facebook Inc. Class A	67,790,793	13,914,060	1.6%
*	Alphabet Inc. Class A	8,433,695	11,296,007	1.6%
*	Alphabet Inc. Class A	8,233,074	11,007,785	1.2%
	Intel Corp.	122,533,964	7,333,658	0.8%
	Cisco Systems Inc.	119,505,808	5,731,499	0.6%
*	Adobe Inc.	13,636,027	4,497,298	0.7%
	NVIDIA Corp.	16,376,180	3,853,315	0.5%
*	salesforce.com Inc.	23,468,715	3,816,952	0.4%
*.1	Computer Task Group Inc.	746,502	3,867	0.4%
§	Technology—Other †	740,302	66,720,403	7.4%
	-37		195,142,625	21.8%
			100,172,020	21.0/0

			Market Value*	Percentage of Net
		Shares	(\$000)	Assets
Telecommunications				
AT&T Inc.		205,770,728		0.9%
Verizon Communications Inc.		116,496,859	7,152,907	0.8%
Telecommunications—Other †			1,903,334	0.2%
Utilities †			28,902,407	3.2%
Total Common Stocks (Cost \$508,641,348)			894,894,544	99.7%3
Preferred Stocks (Cost \$36) †			43	0.0%
	Coupon			
Temporary Cash Investments				
Money Market Fund				
^{4,5} Vanguard Market Liquidity Fund	1.816%	53,284,330	5,328,966	0.6%
⁶ U.S. Government and Agency Obligations †			137,690	0.0%
Total Temporary Cash Investments (Cost \$5,465,831)			5,466,656	0.6%3
⁷ Total Investments (Cost \$514,107,215)			900,361,243	100.3%
			Amount (\$000)	
Other Assets and Liabilities			(ψοσο)	
Other Assets				
Investment in Vanguard			39,345	
Receivables for Investment Securities Sold			12,998	
Receivables for Accrued Income			954,088	
Receivables for Capital Shares Issued			1,034,626	
Variation Margin Receivable—Futures Contracts			8,801	
Unrealized Appreciation—OTC Swap Contracts			9,669	
Other Assets ⁵			8,333	0.00/
Total Other Assets Liabilities			2,067,860	0.2%
Payables for Investment Securities Purchased			(19,003)	
Collateral for Securities on Loan			(2,964,698)	
Payables for Capital Shares Redeemed			(1,682,184)	
Payables to Vanguard			(127,798)	
Variation Margin Payable—Futures Contracts			(1,990)	
Other Liabilities			(9,561)	
Total Liabilities			(4,805,234)	(0.5%)
Net Assets			897,623,869	100.0%
At December 31, 2019, net assets consisted of:				Amount
				(\$000
Paid-in Capital				517,405,991 380,217,878
Total Distributable Earnings (Loss)				300,217,070

	Amount (\$000)
Investor Shares—Net Assets	
Applicable to 1,753,462,332 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	139,685,679
Net Asset Value Per Share—Investor Shares	\$79.66
ETF Shares—Net Assets	
Applicable to 843,407,682 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	138,067,205
Net Asset Value Per Share—ETF Shares	\$163.70
Admiral Shares—Net Assets	
Applicable to 3,169,091,239 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	252,535,692
Net Asset Value Per Share—Admiral Shares	\$79.69
Institutional Shares—Net Assets	
Applicable to 1,916,108,581 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	152,716,443
Net Asset Value Per Share—Institutional Shares	\$79.70
Institutional Plus Shares—Net Assets	
Applicable to 1,259,067,118 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	188,188,264
Net Asset Value Per Share—Institutional Plus Shares	\$149.47
Institutional Select Shares—Net Assets	
Applicable to 168,526,705 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	26,430,586
Net Asset Value Per Share—Institutional Select Shares	\$156.83

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- See Note A in Notes to Financial Statements.
- * Non-income-producing security.
- § Certain of the fund's securities are valued using significant unobservable inputs.
- † 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 Considered an affiliated company of the fund as the fund owns more than 5% of the outstanding voting securities of such company.
- 2 "Other" represents securities that are not classified by the fund's benchmark index.
- 3 The fund invests a portion of its cash reserves in equity markets through the use of index futures contracts and swap contracts. After giving effect to futures and swap investments, the fund's effective common stock and temporary cash investment positions represent 100.0% and 0.3%, respectively, of net assets.
- 4 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 5 Collateral of \$2,964,698,000 was received for securities on loan, of which \$2,956,365,000 is held in Vanguard Market Liquidity Fund and \$8,333,000 is held in cash.
- $6\ Securities\ with\ a\ value\ of\ \$122,551,000\ have\ been\ segregated\ as\ initial\ margin\ for\ open\ futures\ contracts.$
- 7 The total value of securities on loan is \$2,789,582,000.
- REIT—Real Estate Investment Trust.
- OTC—Over-the-Counter.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts				
				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini S&P 500 Index	March 2020	14,070	2,273,079	24,712
E-mini Russell 2000 Index	March 2020	1,914	159,876	2,492
E-mini S&P Mid-Cap 400 Index	March 2020	240	49,555	850
	•			28,054

Over-the-Counter Total Return Swaps

	·			Floating		
			Notional	Interest Rate Received	Value and Unrealized	Value and Unrealized
	Termination		Amount	(Paid)1	Appreciation	(Depreciation)
Reference Entity	Date	Counterparty	(\$000)	(%)	(\$000)	(\$000)
Assurant Inc.	2/4/2020	GSI	6,521	1.945	29	_
First Republic Bank	2/4/2020	GSI	142,014	2.375	1,740	_
JPMorgan Chase & Co.	9/2/2020	BOANA	118,584	2.147	6,678	_
VICI Properties Inc.	2/4/2020	GSI	24,610	1.745	1,222	_
					9,669	_

¹ Payment received/paid monthly. BOANA—Bank of America, N.A. GSI-Goldman Sachs International.

At December 31, 2019, the counterparties had deposited in segregated accounts securities with a value of \$9,601,000 in connection with open over-the-counter swap contracts.

Statement of Operations

Investment Securities Sold—Affiliated Issuers

Year Ended December 31, 2019 (\$000)Investment Income Income Dividends—Unaffiliated Issuers 15.136.266 Dividends—Affiliated Issuers 6.160 Interest—Unaffiliated Issuers 4.144 Interest—Affiliated Issuers 70.056 Securities Lending-Net 152.182 Total Income 15.368.808 Expenses The Vanguard Group—Note B Investment Advisory Services 25.447 Management and Administrative—Investor Shares 169.029 Management and Administrative—ETF Shares 24.791 Management and Administrative—Admiral Shares 71.269 Management and Administrative—Institutional Shares 30.930 Management and Administrative—Institutional Plus Shares 25.302 Management and Administrative—Institutional Select Shares 1.569 Marketing and Distribution—Investor Shares 11.957 Marketing and Distribution—ETF Shares 4.670 Marketing and Distribution—Admiral Shares 10.085 4,198 Marketing and Distribution—Institutional Shares Marketing and Distribution—Institutional Plus Shares 2 207 Marketing and Distribution—Institutional Select Shares 1 Custodian Fees 1 703 Auditing Fees 407 Shareholders' Reports—Investor Shares 1.423 Shareholders' Reports-ETF Shares 1.600 Shareholders' Reports—Admiral Shares 691 Shareholders' Reports—Institutional Shares 1.173 Shareholders' Reports—Institutional Plus Shares 38 Shareholders' Reports—Institutional Select Shares Trustees' Fees and Expenses 382 Total Expenses 388.872 Net Investment Income 14.979.936 Realized Net Gain (Loss) Investment Securities Sold—Unaffiliated Issuers1 3.017.113

(3,906)

Statement of Operations (continued)

	Year Ended
	December 31, 2019
	(\$000)
Futures Contracts	766,975
Swap Contracts	50,674
Realized Net Gain (Loss)	3,830,856
Change in Unrealized Appreciation (Depreciation)	
Investment Securities—Unaffiliated Issuers	191,133,025
Investment Securities—Affiliated Issuers	5,907
Futures Contracts	142,709
Swap Contracts	11,880
Change in Unrealized Appreciation (Depreciation)	191,293,521
Net Increase (Decrease) in Net Assets Resulting from Operations	210,104,313

¹ Includes \$8,345,326,000 of net gain (loss) resulting from in-kind redemptions; such gain (loss) is not taxable to the fund.

Statement of Changes in Net Assets

	Year Ended December 3		
	2019 (\$000)	2018 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	14,979,936	13,757,171	
Realized Net Gain (Loss)	3,830,856	6,511,049	
Change in Unrealized Appreciation (Depreciation)	191,293,521	(56,929,307)	
Net Increase (Decrease) in Net Assets Resulting from Operations	210,104,313	(36,661,087)	
Distributions			
Net Investment Income			
Investor Shares	(2,441,205)	(2,268,803)	
ETF Shares	(2,314,799)	(1,838,334)	
Admiral Shares	(4,371,014)	(3,685,244)	
Institutional Shares	(2,694,343)	(2,243,070)	
Institutional Plus Shares	(3,268,140)	(2,615,192)	
Institutional Select Shares	(467,850)	(351,965)	
Realized Capital Gain			
Investor Shares	_	_	
ETF Shares	_	_	
Admiral Shares	_	_	
Institutional Shares	_	_	
Institutional Plus Shares	_	_	
Institutional Select Shares	_	_	
Total Distributions	(15,557,351)	(13,002,608)	
Capital Share Transactions			
Investor Shares	(14,863,283)	2,806,888	
ETF Shares	15,039,487	10,133,992	
Admiral Shares	13,652,300	8,992,303	
Institutional Shares	4,263,716	9,953,282	
Institutional Plus Shares	12,427,894	19,272,078	
Institutional Select Shares	361,129	8,123,645	
Net Increase (Decrease) from Capital Share Transactions	30,881,243	59,282,188	
Total Increase (Decrease)	225,428,205	9,618,493	
Net Assets			
Beginning of Period	672,195,664	662,577,171	
End of Period	897,623,869	672,195,664	

Investor Shares

For a Share Outstanding	Year Ended December 31				mber 31,
Throughout Each Period	2019	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$62.08	\$66.70	\$56.06	\$50.78	\$51.58
Investment Operations					
Net Investment Income	1.279	1.275	1.086	1.022	.954
Net Realized and Unrealized Gain (Loss) on Investments	17.634	(4.703)	10.630	5.282	(.807)
Total from Investment Operations	18.913	(3.428)	11.716	6.304	.147
Distributions					
Dividends from Net Investment Income	(1.333)	(1.192)	(1.076	(1.024)	(.947)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.333)	(1.192)	(1.076	(1.024)	(.947)
Net Asset Value, End of Period	\$79.66	\$62.08	\$66.70	\$56.06	\$50.78
Total Return ²	30.65%	-5.26%	21.05%	12.53%	0.29%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$139,686	\$121,266	\$126,766	\$103,932	\$96,323
Ratio of Total Expenses to Average Net Assets	0.14%	0.14%	0.14%	0.15%	0.16%
Ratio of Net Investment Income to Average Net Assets	1.78%	1.86%	1.77%	1.98%	1.85%
Portfolio Turnover Rate ³	4%	3%	3%	4%	3%

¹ Calculated based on average shares outstanding.

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

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

ETF Shares

For a Share Outstanding	Year Ended December 31,				ember 31,
Throughout Each Period	2019	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$127.56	\$137.06	\$115.21	\$104.34	\$106.00
Investment Operations					
Net Investment Income	2.809 ¹	2.7811	2.3611	2.214	2.082
Net Realized and Unrealized Gain (Loss) on Investments	36.236	(9.676)	21.832	10.871	(1.675)
Total from Investment Operations	39.045	(6.895)	24.193	13.085	.407
Distributions					
Dividends from Net Investment Income	(2.905)	(2.605)	(2.343)	(2.215)	(2.067)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.905)	(2.605)	(2.343)	(2.215)	(2.067)
Net Asset Value, End of Period	\$163.70	\$127.56	\$137.06	\$115.21	\$104.34
Total Return	30.80%	-5.13%	21.16%	12.68%	0.40%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$138,067	\$94,809	\$91,862	\$69,889	\$57,434
Ratio of Total Expenses to Average Net Assets	0.03%	0.03%	0.04%	0.04%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.89%	1.97%	1.87%	2.09%	1.96%
Portfolio Turnover Rate ²	4%	3%	3%	4%	3%

¹ Calculated based on average shares outstanding.

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

Admiral Shares

Year Ended December 31,				ember 31,
2019	2018	2017	2016	2015
\$62.09	\$66.72	\$56.08	\$50.79	\$51.60
1.3601	1.344	1.1481	1.077	1.013
17.646	(4.711)	10.633	5.291	(.818)
19.006	(3.367) 11.781	6.368	.195
(1.406)	(1.263) (1.141)	(1.078)	(1.005)
_	_	_	_	_
(1.406)	(1.263) (1.141)	(1.078	(1.005)
\$79.69	\$62.09	\$66.72	\$56.08	\$50.79
30.80%	-5.17%	21.17%	12.66%	0.39%
\$252,536	\$185,102	\$190,099	\$151,612	\$126,363
0.04%	0.04%	0.04%	0.04%	0.05%
1.88%	1.96%	1.87%	2.09%	1.96%
4%	3%	3%	4%	3%
	\$62.09 1.360 ¹ 17.646 19.006 (1.406) — (1.406) \$79.69 30.80% \$252,536 0.04% 1.88%	\$62.09 \$66.72 1.3601 1.344 17.646 (4.711) 19.006 (3.367 (1.406) (1.263 — — (1.406) (1.263 \$79.69 \$62.09 30.80% -5.17% \$252,536 \$185,102 0.04% 0.04% 1.88% 1.96%	2019 2018 2017 \$62.09 \$66.72 \$56.08 1.3601 1.3441 1.1481 17.646 (4.711) 10.633 19.006 (3.367) 11.781 (1.406) (1.263) (1.141) — — — (1.406) (1.263) (1.141) \$79.69 \$62.09 \$66.72 30.80% -5.17% 21.17% \$252,536 \$185,102 \$190,099 0.04% 0.04% 0.04% 1.88% 1.96% 1.87%	2019 2018 2017 2016 \$62.09 \$66.72 \$56.08 \$50.79 1.360¹ 1.344¹ 1.148¹ 1.077 17.646 (4.711) 10.633 5.291 19.006 (3.367) 11.781 6.368 (1.406) (1.263) (1.141) (1.078) — — — — (1.406) (1.263) (1.141) (1.078) \$79.69 \$62.09 \$66.72 \$56.08 30.80% -5.17% 21.17% 12.66% \$252,536 \$185,102 \$190,099 \$151,612 0.04% 0.04% 0.04% 0.04% 1.88% 1.96% 1.87% 2.09%

¹ Calculated based on average shares outstanding.

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

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

Institutional Shares

For a Share Outstanding			Year I	Ended Dece	mber 31,
Throughout Each Period	2019	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$62.10	\$66.73	\$56.09	\$50.80	\$51.60
Investment Operations					
Net Investment Income	1.365 ¹	1.354	1.1531	1.082	1.017
Net Realized and Unrealized Gain (Loss) on Investments	17.649	(4.715)	10.630	5.291	(.808)
Total from Investment Operations	19.014	(3.361)	11.783	6.373	.209
Distributions					
Dividends from Net Investment Income	(1.414)	(1.269)	(1.143)	(1.083)	(1.009)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.414)	(1.269)	(1.143)	(1.083)	(1.009)
Net Asset Value, End of Period	\$79.70	\$62.10	\$66.73	\$56.09	\$50.80
Total Return	30.81%	-5.16%	21.17%	12.67%	0.42%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$152,716	\$115,115	\$113,557	\$79,443	\$57,438
Ratio of Total Expenses to Average Net Assets	0.03%	0.03%	0.035%	0.03%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.89%	1.97%	1.87%	2.10%	1.97%
Portfolio Turnover Rate ²	4%	3%	3%	4%	3%

¹ Calculated based on average shares outstanding.

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

Institutional Plus Shares

For a Share Outstanding		April 28, 2015 ¹ to Dec. 31.			
Throughout Each Period	2019	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$116.46	\$125.14	\$105.18	\$95.26	\$100.00
Investment Operations					
Net Investment Income	2.5752	2.5552	2.1822	2.042	1.335
Net Realized and Unrealized Gain (Loss) on Investments	33.100	(8.842)	19.938	9.924	(4.631)
Total from Investment Operations	35.675 (6.2		22.120	11.966	(3.296)
Distributions					
Dividends from Net Investment Income	(2.665)	(2.393)	(2.160)	(2.046)	(1.444)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.665)	(2.393)	(2.160)	(2.046)	(1.444)
Net Asset Value, End of Period	\$149.47	\$116.46	\$125.14	\$105.18	\$95.26
Total Return	30.82%	-5.15%	21.19%	12.69%	-3.28%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$188,188	\$135,641	\$126,130	\$85,031	\$63,093
Ratio of Total Expenses to Average Net Assets	0.02%	0.02%	0.02%	0.02%	0.02%3
Ratio of Net Investment Income to Average Net Assets	1.90%	1.98%	1.89%	2.11%	1.99%³
Portfolio Turnover Rate ⁴	4%	3%	3%	4%	3%5

¹ Inception.

² Calculated based on average shares outstanding.

³ Annualized

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

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

Institutional Select Shares

	Year I	Ended Dece	mber 31,	June 27, 2016 ¹ to Dec. 31.
For a Share Outstanding Throughout Each Period	2019	2018	2017	2016
Net Asset Value, Beginning of Period	\$122.20	\$131.31	\$110.37	\$97.70
Investment Operations				
Net Investment Income	2.7092	2.7042	2.3112	1.181
Net Realized and Unrealized Gain (Loss) on Investments	34.731	(9.290)	20.908	12.718
Total from Investment Operations	37.440	(6.586)	23.219	13.899
Distributions				
Dividends from Net Investment Income	(2.810)	(2.524)	(2.279)	(1.229)
Distributions from Realized Capital Gains	_	_	_	_
Total Distributions	(2.810)	(2.524)	(2.279)	(1.229)
Net Asset Value, End of Period	\$156.83	\$122.20	\$131.31	\$110.37
Total Return	30.84%	-5.14%	21.20%	14.24%
Ratios/Supplemental Data				
Net Assets, End of Period (Millions)	\$26,431	\$20,262	\$14,163	\$8,545
Ratio of Total Expenses to Average Net Assets	0.01%	0.01%	0.01%	0.01%3
Ratio of Net Investment Income to Average Net Assets	1.91%	1.99%	1.90%	2.15%3
Portfolio Turnover Rate ⁴	4%	3%	3%	4%5

¹ Inception.

² Calculated based on average shares outstanding.

³ Annualized.

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

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

Notes to Financial Statements

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

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

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

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

During the year ended December 31, 2019, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

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

The notional amounts of swap contracts are not recorded in the Statement of Net Assets. Swaps are valued daily based on market quotations received from independent pricing services or recognized dealers and the change in value is recorded in the Statement of Net Assets as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until termination of the swap, at which time realized gain (loss) is recorded.

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

During the year ended December 31, 2019, 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, 2016–2019), and has concluded that no provision for federal income tax is required in the fund's financial statements.
- 5. Distributions: Distributions to shareholders are recorded on the ex-dividend date. Distributions are determined on a tax basis and may differ from net investment income and realized capital gains for financial reporting purposes.

- 6. Securities Lending: To earn additional income, the fund lends its securities to qualified institutional borrowers. Security loans are subject to termination by the fund at any time, and are required to be secured at all times by collateral in an amount at least equal to the market value of securities loaned. Daily market fluctuations could cause the value of loaned securities to be more or less than the value of the collateral received. When this occurs, the collateral is adjusted and settled before the opening of the market on the next business day. The fund further mitigates its counterparty risk by entering into securities lending transactions only with a diverse group of prequalified counterparties, monitoring their financial strength, and entering into master securities lending agreements with its counterparties. The master securities lending agreements provide that, in the event of a counterparty's default (including bankruptcy), the fund may terminate any loans with that borrower, determine the net amount owed, and sell or retain the collateral up to the net amount owed to the fund; however, such actions may be subject to legal proceedings. While collateral mitigates counterparty risk, in the event of a default, the fund may experience delays and costs in recovering the securities loaned. The fund invests cash collateral received in Vanguard Market Liquidity Fund, and records a liability in the Statement of Net Assets for the return of the collateral, during the period the securities are on loan. Securities lending income represents fees charged to borrowers plus income earned on invested cash collateral, less expenses associated with the loan. During the term of the loan, the fund is entitled to all distributions made on or in respect of the loaned securities.
- 7. Credit Facility: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement that may be renewed annually; each fund is individually liable for its borrowings, if any, under the credit facility. Borrowings may be utilized for temporary and emergency purposes, and are subject to the fund's regulatory and contractual borrowing restrictions. The participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn amount of the facility; these fees are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under this facility bear interest at a rate based upon the higher of the one-month London Interbank Offered Rate, federal funds effective rate, or overnight bank funding rate plus an agreed-upon spread.

The fund had no borrowings outstanding at December 31, 2019, 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 are amortized and accreted, respectively, to interest income over the lives of the respective securities, except for premiums on certain callable debt securities that are amortized to the earliest call date. 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. All other costs of operations payable to Vanguard are generally settled twice a month.

Upon the request of Vanguard, the fund may invest up to 0.40% of its net assets as capital in Vanguard. At December 31, 2019, the fund had contributed to Vanguard capital in the amount of \$39,345,000, representing less than 0.01% of the fund's net assets and 15.74% of Vanguard's capital received pursuant to the FSA. The fund's trustees and officers are also directors and employees, respectively, of Vanguard.

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

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

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

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

The following table summarizes the market value of the fund's investments and derivatives as of December 31, 2019, based on the inputs used to value them:

Investments	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)
Common Stocks	894,889,490	96	4,958
Preferred Stocks	43	_	_
Temporary Cash Investments	5,328,966	137,690	_
Futures Contracts—Assets ¹	8,801	_	_
Futures Contracts—Liabilities ¹	(1,990)	_	_
Swap Contracts—Assets	_	9,669	_
Total	900,225,310	147,455	4,958

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

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D. Permanent differences between book-basis and tax-basis components of net assets are reclassified among capital accounts in the financial statements to reflect their tax character. These reclassifications have no effect on net assets or net asset value per share. As of period end, permanent differences primarily attributable to the accounting for in-kind redemptions, passive foreign investment companies, and swap agreements were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	8,345,099
Total Distributable Earnings (Loss)	(8,345,099)

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

	Amount (\$000)
Undistributed Ordinary Income	255,875
Undistributed Long-Term Gains	_
Capital Loss Carryforwards (Non-expiring)	(6,156,034)
Net Unrealized Gains (Losses)	386,223,802

As of December 31, 2019, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

Net Unrealized Appreciation (Depreciation)	386,223,802
Gross Unrealized Depreciation	(24,332,493)
Gross Unrealized Appreciation	410,556,295
Tax Cost	514,137,441
	Amount (\$000)

E. During the year ended December 31, 2019, the fund purchased \$77,124,211,000 of investment securities and sold \$44,189,839,000 of investment securities, other than temporary cash investments. Purchases and sales include \$16,479,628,000 and \$11,228,727,000, respectively, in connection with in-kind purchases and redemptions of the fund's capital shares.

F. Certain of the fund's investments are in companies that are considered to be affiliated companies of the fund because the fund owns more than 5% of the outstanding voting securities of the company or the issuer is another member of The Vanguard Group. Transactions during the period in securities of these companies were as follows:

		Current Period Transactions						
Dec	c. 31,		Proceeds	Realized				Dec. 31,
	2018		from	Net	Change in		Capital Gain	2019
M	arket	Purchases	Securities	Gain	Unrealized	[Distributions	Market
	√alue	at Cost	Sold1		App. (Dep.)		Received	Value
(S	\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
Acacia Research Corp.	NA ²	3,424	690	(372)	(565)	_	_	NA3
Computer Task Group								
Inc.	NA2	1,856	173	(58)	578			3,867
Great Ajax Corp.	NA^2	20,667	3,944	388	1,259	728	_	23,995
Moleculin Biotech Inc.	NA2	3,224	90	(100)	(1,467)	_	_	NАз
Orchid Island Capital Inc.	NA2	14,499	8,590	(4,137)	1,826	1,963	_	NАз
Perma-Pipe International								
Holdings Inc.	NA ²	2,933	16	(10)	236			4,362
Safeguard Scientifics								
Inc.	NA^2	6,067	1,500	(48)	1,338	1,085	_	11,504
Spirit MTA REIT	NA ²	3,988	88	126	2,476	2,384	_	2,191
Vanguard Market								
Liquidity Fund 5,691	,905	NA ⁴	NA ⁴	305	226	70,056		5,328,966
Total 5,691	,905			(3,906)	5,907	76,216	_	5,374,885

¹ Does not include adjustments to related return of capital.

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

		Year Ended December 31,			
		2019		2018	
	Amount (\$000)			Shares (000)	
Investor Shares					
Issued	7,749,732	109,431	16,009,467	241,652	
Issued in Lieu of Cash Distributions	2,435,264	33,011	2,255,725	33,764	
Redeemed ¹	(25,048,279)	(342,517)	(15,458,304)	(222,427)	
Net Increase (Decrease)—Investor Shares	(14,863,283)	(200,075)	2,806,888	52,989	

² Not Applicable—at December 31, 2018, the issuer was not an affiliated company of the fund.

³ Not Applicable—at December 31, 2019, the security was still held, but the issuer was no longer an affiliated company of the fund.

⁴ Not Applicable—purchases and sales are for temporary cash investment purposes.

	Year Ended December 3				
		2019	2018		
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
ETF Shares					
Issued	25,747,266	171,544	18,928,131	135,252	
Issued in Lieu of Cash Distributions	_	_	_	_	
Redeemed	(10,707,779)	(71,400)	(8,794,139)	(62,200)	
Net Increase (Decrease)—ETF Shares	15,039,487	100,144	10,133,992	73,052	
Admiral Shares					
Issued ¹	37,798,017	521,571	29,607,545	433,536	
Issued in Lieu of Cash Distributions	3,668,017	49,584	3,114,582	46,549	
Redeemed	(27,813,734)	(383,118)	(23,729,824)	(348,197)	
Net Increase (Decrease)—Admiral Shares	13,652,300	188,037	8,992,303	131,888	
Institutional Shares					
Issued	18,127,281	253,986	27,433,744	407,227	
Issued in Lieu of Cash Distributions	2,526,249	34,162	2,093,941	31,328	
Redeemed	(16,389,814)	(225,625)	(19,574,403)	(286,645)	
Net Increase (Decrease)—Institutional Shares	4,263,716	62,523	9,953,282	151,910	
Institutional Plus Shares					
Issued	23,108,140	173,405	31,228,823	248,199	
Issued in Lieu of Cash Distributions	3,223,646	23,230	2,582,398	20,611	
Redeemed	(13,903,892)	(102,224)	(14,539,143)	(112,031)	
Net Increase (Decrease)—Institutional Plus Shares	12,427,894	94,411	19,272,078	156,779	
Institutional Select Shares				_	
Issued	3,339,486	23,224	9,064,355	64,847	
Issued in Lieu of Cash Distributions	467,850	3,217	351,965	2,683	
Redeemed	(3,446,207)	(23,715)	(1,292,675)	(9,583)	
Net Increase (Decrease)—Institutional Select Shares	361,129	2,726	8,123,645	57,947	

¹ In November 2018, the fund announced changes to the availability and minimum investment criteria of the Investor and Admiral share classes. As a result, all of the outstanding Investor Shares automatically converted to Admiral Shares beginning in April 2019, with the exception of those held by Vanguard funds and certain other institutional investors. Investor Shares—Redeemed and Admiral Shares—Issued include 153,030,000 and 152,973,000 shares, respectively, in the amount of \$11,326,553,000 from the conversion during the year ended December 31, 2019.

H. Management has determined that no events or transactions occurred subsequent to December 31, 2019, that would require recognition or disclosure in these financial statements.

Report of Independent Registered Public Accounting Firm

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

Opinion on the Financial Statements

We have audited the accompanying statement of net assets—investments summary of Vanguard Total Stock Market Index Fund (one of the funds constituting Vanguard Index Funds, referred to hereafter as the "Fund") as of December 31, 2019, the related statement of operations for the year ended December 31, 2019, the statement of changes in net assets for each of the two years in the period ended December 31, 2019, including the related notes, and the financial highlights for each of the periods indicated therein (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Fund as of December 31, 2019, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period ended December 31, 2019 and the financial highlights for each of the periods indicated therein in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

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

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

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our procedures included confirmation of securities owned as of December 31, 2019 by correspondence with the custodian and brokers and by agreement to the underlying ownership records of the transfer agent; when replies were not received from brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania February 13, 2020

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

Special 2019 tax information (unaudited) for Vanguard Total Stock Market Index Fund

This information for the fiscal year ended December 31, 2019, is included pursuant to provisions of the Internal Revenue Code.

The fund distributed \$14,591,240,000 of qualified dividend income to shareholders during the fiscal year.

The fund distributed \$910,105,000 of qualified business income to shareholders during the fiscal year.

For corporate shareholders, 89.7% of investment income (dividend income plus short-term gains, if any) qualifies for the dividends-received deduction.

The CRSP US Total Market Index (the "Index") is a product of the Center for Research in Security Prices, LLC ("CRSP"), an affiliate of the University of Chicago ("University"), and has been licensed for use by Vanguard, CRSP® is a trademark of CRSP; and has been licensed by CRSP for use for certain purposes by Vanguard. The Vanguard Total Stock Market Index Fund is not sponsored, endorsed, sold or promoted by CRSP or University. Neither CRSP nor University makes any representation or warranty, express or implied, to the owners of the Vanguard Total Stock Market Index Fund or any member of the public regarding the advisability of investing in securities generally or in Vanguard Total Stock Market Index Fund particularly or the ability of the Index to track general market performance. The Index is determined, composed and calculated without regard to Vanguard or the Vanguard Total Stock Market Index Fund. Neither CRSP nor the University has any obligation to take the needs of Vanguard or the owners of Vanguard Total Stock Market Index Fund into consideration in determining, composing or calculating the Index. Neither CRSP nor the University is responsible for and has not participated in the determination of the prices and amount of Vanguard Total Stock Market Index Fund or the timing of the issuance or sale of Vanguard Total Stock Market Index Fund or in the determination or calculation of the equation by which Vanguard Total Stock Market Index Fund is to be converted into cash, surrendered or redeemed, as the case may be. Neither CRSP nor the University has any obligation or liability in connection with the administration, marketing or trading of Vanguard Total Stock Market Index Fund. There is no assurance that investment products based on the Index will accurately track index performance or provide positive investment returns. Neither CRSP nor the University is an investment advisor. Inclusion of a security within an index is not a recommendation by CRSP or the University to buy, sell, or hold such security, nor is it considered to be investment advice.

NEITHER CRSP NOR THE UNIVERSITY GUARANTEE THE ADEQUACY, ACCURACY, TIMELINESS AND/OR THE COMPLETENESS OF THE INDEX OR ANY DATA RELATED THERETO OR ANY COMMUNICATION, INCLUDING BUT NOT LIMITED TO, ORAL OR WRITTEN COMMUNICATION (INCLUDING ELECTRONIC COMMUNICATIONS) WITH RESPECT THERETO. NEITHER CRSP NOR THE UNIVERSITY SHALL BE SUBJECT TO ANY DAMAGES OR LIABILITY FOR ANY ERRORS, OMISSIONS, OR DELAYS THEREIN. NEITHER CRSP NOR THE UNIVERSITY MAKES ANY EXPRESS OR IMPLIED WARRANTIES, AND CRSP AND THE UNIVERSITY EXPRESSLY DISCLAIM ALL WARRANTIES, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE OR AS TO RESULTS TO BE OBTAINED BY VANGUARD, OWNERS OF THE VANGUARD TOTAL STOCK MARKET INDEX FUND, OR ANY OTHER PERSON OR ENTITY FROM THE USE OF THE INDEX OR WITH RESPECT TO ANY DATA RELATED THERETO. WITHOUT LIMITING ANY OF THE FOREGOING, IN NO EVENT WHATSOEVER SHALL CRSP OR THE UNIVERSITY BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, TRADING LOSSES, LOST TIME OR GOODWILL, EVEN IF IT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE. THERE ARE NO THIRD-PARTY BENEFICIARIES OF ANY AGREEMENTS OR ARRANGEMENTS BETWEEN CRSP AND VANGUARD, OTHER THAN THE LICENSORS, IF ANY, OF CRSP.

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The People Who Govern Your Fund

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

A majority of Vanguard's board members are independent, meaning that they have no affiliation with Vanguard or the funds they oversee, apart from the sizable personal investments they have made as private individuals. The independent board members have distinguished backgrounds in business, academia, and public service. Each of the trustees and executive officers oversees 213 Vanguard funds.

Information for each trustee and executive officer of the fund appears below. That information, as well as the Vanguard fund count, is as of the date on the cover of this fund report. 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

Mortimer J. Buckley

Born in 1969. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: chairman of the board (January 2019present) of Vanguard and of each of the investment companies served by Vanguard; chief executive officer (January 2018-present) of Vanguard; chief executive officer, president, and trustee (January 2018–present) of each of the investment companies served by Vanguard: president and director (2017-present) of Vanguard; and president (February 2018-present) of Vanguard Marketing Corporation. Chief investment officer (2013-2017), managing director (2002-2017). head of the Retail Investor Group (2006-2012), and chief information officer (2001–2006) of Vanguard. Chairman of the board (2011-2017) and trustee (2009-2017) of the Children's Hospital of Philadelphia: trustee (2018-present) of The Shipley School.

Independent Trustees

Emerson U. Fullwood

Born in 1948. Trustee since January 2008. Principal occupation(s) during the past five years and other experience: executive chief staff and marketing officer for North America and corporate vice president (retired 2008) of Xerox Corporation (document management products and services). Former president of the Worldwide Channels Group, Latin America, and

Worldwide Customer Service and executive chief staff officer of Developing Markets of Xerox. Executive in residence and 2009–2010 Distinguished Minett Professor at the Rochester Institute of Technology. Director of SPX FLOW, Inc. (multi-industry manufacturing). Director of the University of Rochester Medical Center, the Monroe Community College Foundation, the United Way of Rochester, North Carolina A&T University, and Roberts Wesleyan College. Trustee of the University of Rochester.

Amy Gutmann

Born in 1949. Trustee since June 2006. Principal occupation(s) during the past five years and other experience: president (2004–present) of the University of Pennsylvania. Christopher H. Browne Distinguished Professor of Political Science, School of Arts and Sciences, and professor of communication, Annenberg School for Communication, with secondary faculty appointments in the Department of Philosophy, School of Arts and Sciences, and at the Graduate School of Education, University of Pennsylvania. Trustee of the National Constitution Center.

F. Joseph Loughrey

Born in 1949. Trustee since October 2009. Principal occupation(s) during the past five years and other experience: president and chief operating officer (retired 2009) and vice chairman of the board (2008–2009) of Cummins Inc. (industrial machinery). Chairman of the board of Hillenbrand, Inc. (specialized consumer services), and the Lumina Foundation.

¹ Mr. Buckley is considered an "interested person," as defined in the Investment Company Act of 1940, because he is an officer of the Vanguard funds.

Director of the V Foundation and Oxfam America. Member of the advisory council for the College of Arts and Letters and chair of the advisory board to the Kellogg Institute for International Studies, both at the University of Notre Dame.

Mark Loughridge

Born in 1953. Trustee since March 2012. Principal occupation(s) during the past five years and other experience: senior vice president and chief financial officer (retired 2013) of IBM (information technology services). Fiduciary member of IBM's Retirement Plan Committee (2004–2013), senior vice president and general manager (2002–2004) of IBM Global Financing, vice president and controller (1998–2002) of IBM, and a variety of other prior management roles at IBM. Member of the Council on Chicago Booth.

Scott C. Malpass

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

Deanna Mulligan

Born in 1963. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: president (2010-present) and chief executive officer (2011-present) of The Guardian Life Insurance Company of America. Chief operating officer (2010-2011) and executive vice president (2008-2010) of Individual Life and Disability of The Guardian Life Insurance Company of America. Member of the board of The Guardian Life Insurance Company of America, the American Council of Life Insurers, the Partnership for New York City (business leadership), and the Committee Encouraging Corporate Philanthropy, Trustee of the Economic Club of New York and the Bruce Museum (arts and science). Member of the Advisory Council for the Stanford Graduate School of Business.

André F. Perold

Born in 1952. Trustee since December 2004. Principal occupation(s) during the past five years and other experience: George Gund Professor of Finance and Banking, Emeritus at the Harvard Business School (retired 2011). Chief investment officer and comanaging partner of HighVista Strategies (private investment firm). Board of advisors and investment committee member of the Museum of Fine Arts Boston. Board member (2018–present) of RIT Capital Partners (investment firm); investment committee member of Partners Health Care System.

Sarah Bloom Raskin

Born in 1961. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: deputy secretary (2014–2017) of the United States Department of the Treasury. Governor (2010–2014) of the Federal Reserve Board. Commissioner (2007–2010) of financial regulation for the State of Maryland. Member of the board of directors (2012–2014) of Neighborhood Reinvestment Corporation. Director (2017–present) of i(x) Investments; director (2017–present) of Reserve Trust. Rubinstein Fellow (2017–present) of Duke University; trustee (2017–present) of Amherst College.

Peter F. Volanakis

Born in 1955. Trustee since July 2009. Principal occupation(s) during the past five years and other experience: president and chief operating officer (retired 2010) of Corning Incorporated (communications equipment) and director of Corning Incorporated (2000–2010) and Dow Corning (2001–2010). Director (2012) of SPX Corporation (multi-industry manufacturing). Overseer of the Amos Tuck School of Business Administration, Dartmouth College (2001–2013). Chairman of the board of trustees of Colby-Sawyer College. Member of the board of Hypertherm Inc. (industrial cutting systems, software, and consumables).

Executive Officers

John Bendl

Born in 1970. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief financial officer (October 2019–present) of each of the investment companies served by Vanguard. Chief accounting officer, treasurer, and controller of Vanguard (2017–present). Partner (2003–2016) at KPMG (audit, tax, and advisory services).

Glenn Booraem

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

Christine M. Buchanan

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

David Cermak

Born in 1960. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Finance director (October 2019–present) of each of the investment companies served by Vanguard. Managing director and head (2017–present) of Vanguard Investments Singapore. Managing director and head (2017–2019) of Vanguard Investments Hong Kong. Representative director and head (2014–2017) of Vanguard Investments Japan.

Thomas J. Higgins

Born in 1957. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Finance director (October 2019–present), chief financial officer (2008–2019), and treasurer (1998–2008) of each of the investment companies served by Vanguard.

Peter Mahoney

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

Anne E. Robinson

Born in 1970. Principal occupation(s) during the past five years and other experience: general counsel (2016–present) of Vanguard. Secretary (2016–present) of Vanguard and of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Managing director and general counsel of Global Cards and Consumer Services (2014–2016) at Citigroup. Counsel (2003–2014) at American Express.

Michael Rollings

Born in 1963. Principal occupation(s) during the past five years and other experience: finance director (2017–present) and treasurer (2017) of each of the investment companies served by Vanguard. Managing director (2016–present) of Vanguard. Chief financial officer (2016–present) of Vanguard. Director (2016–present) of Vanguard Marketing Corporation. Executive vice president and chief financial officer (2006–2016) of MassMutual Financial Group.

John E. Schadl

Born in 1972. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief compliance officer (2019–present) of Vanguard and of each of the investment companies served by Vanguard. Assistant vice president (May 2019–present) of Vanguard Marketing Corporation.

Vanguard Senior Management Team

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



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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 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, www.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 www.sec.gov.

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

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Common Stocks (99.7%)1 Basic Materials (2.2%)	Value (\$000) 3,222,226 1,457,599
Basic Materials (2.2%)	
Linde plc 15,134,929	
Air Products & Chemicals Inc. 6,202,815	
Ecolab Inc. 7,305,117 DuPont de Nemours Inc. 20,873,003	1,409,815
DuPont de Nemours Inc. 20,873,003 Dow Inc. 20,929,539	1,340,047 1,145,474
Newmont Goldcorp Corp. 23,107,807	1,004,034
PPG Industries Inc. 6,646,159	887,196
LyondellBasell Industries NV Class A 7,047,120	665,812
Freeport-McMoRan Inc. 38,833,880	509,501
International Paper Co. 11,058,509	509,244
Nucor Corp. 8,537,296	480,479
Celanese Corp. Class A 3,406,597	419,420
International Flavors & Fragrances Inc. 3,004,135	387,593
FMC Corp. 3,655,457	364,888
Avery Dennison Corp. 2,355,232	308,111
CF Industries Holdings Inc. 6,130,780	292,683
RPM International Inc. 3,648,559	280,063
Eastman Chemical Co. 3,457,498	274,041
Royal Gold Inc. 1,842,944 Albemarle Corp. 2,984,304	225,300
Albemarle Corp. 2,984,304 Reliance Steel & Aluminum Co. 1,777,724	217,974 212,900
Mosaic Co. 9,628,626	208,363
Steel Dynamics Inc. 5,791,420	197,140
* Axalta Coating Systems Ltd. 5,902,140	179,425
Huntsman Corp. 5,801,106	140,155
WR Grace & Co. 1,865,484	130,304
Ashland Global Holdings Inc. 1,702,064	130,259
NewMarket Corp. 266,961	129,882
Scotts Miracle-Gro Co. 1,107,569	117,602
Univar Solutions Inc. 4,745,763	115,037
* Alcoa Corp. 5,232,726	112,556
* Ingevity Corp. 1,181,170	103,211
Balchem Corp. 913,136	92,802
Chemours Co. 4,591,159	83,054
PolyOne Corp. 2,178,343	80,141
Sensient Technologies Corp. 1,187,405 Olin Corp. 4,476,055	78,476 77,212
Olin Corp. 4,476,055 Westlake Chemical Corp. 1,084,804	76,099
HB Fuller Co.	74,106
Commercial Metals Co. 3,321,882	73,978
Innospec Inc. 685,977	70,957
* Element Solutions Inc. 6,062,971	70,815
Cabot Corp. 1,448,198	68,818
Carpenter Technology Corp. 1,357,669	67,585
^ Cleveland-Cliffs Inc. 7,536,994	63,311
Quaker Chemical Corp. 378,340	62,244
Domtar Corp. 1,610,013	61,567
Compass Minerals International Inc. 955,846	58,268
Stepan Co. 565,290	57,908
Minerals Technologies Inc. 978,061	56,366
United States Steel Corp. 4,764,758	54,366
* Coeur Mining Inc. 6,144,234	49,645
Kaiser Aluminum Corp. 447,290 Hecla Mining Co. 13,977,833	49,600 47,385
Worthington Industries Inc.	47,385 44,066
* GCP Applied Technologies Inc. 1,689,907	38,378
Schweitzer-Mauduit International Inc. 1,009,907	36,716
* Ferro Corp. 2,332,299	34,588
Materion Corp. 558,542	33,205
Neenah Inc. 462,801	32,595
Warrior Met Coal Inc. 1,413,990	29,878

			Market
		Shares	Value (\$000)
	Arch Coal Inc. Class A	411,588	29,527
*	AK Steel Holding Corp.	8,240,587	27,112
	Tronox Holdings plc Class A	2,358,953	26,939
	Chase Corp.	194,326	23,024
*	Kraton Corp.	905,710	22,933
	PH Glatfelter Co.	1,228,250	22,477
	GrafTech International Ltd.	1,901,307	22,093
*	Koppers Holdings Inc.	534,736	20,438
*	PQ Group Holdings Inc.	1,175,974	20,203
	Tredegar Corp.	846,265	18,914
	Innophos Holdings Inc.	560,944	17,939
	Peabody Energy Corp.	1,846,360	16,839
*	Verso Corp.	896,052	16,156
*	AdvanSix Inc.	804,471	16,057
	SunCoke Energy Inc.	2,568,204	16,000
	Schnitzer Steel Industries Inc.	710,227	15,398
	American Vanguard Corp.	778,580	15,159
*	OMNOVA Solutions Inc.	1,285,015	12,992
	Haynes International Inc.	362,822	12,982
	US Silica Holdings Inc.	2,090,691	12,858
	Hawkins Inc.	280,320	12,841
*	Century Aluminum Co.	1,417,898	10,656
	Gold Resource Corp.	1,877,491	10,401
*	Clearwater Paper Corp.	465,239	9,938
	Kronos Worldwide Inc.	739,566	9,910
	FutureFuel Corp.	731,582	9,064
*	TimkenSteel Corp.	1,000,122	7,861
*	Resolute Forest Products Inc.	1,670,830	7,017
*	CONSOL Energy Inc.	473,551	6,871
*	Intrepid Potash Inc.	2,429,814	6,585
	Rayonier Advanced Materials Inc.	1,616,669	6,208
*,^	ChromaDex Corp.	1,265,117	5,453
	Olympic Steel Inc.	298,044	5,341
*,^	Energy Fuels Inc.	2,667,456	5,095
*	Ryerson Holding Corp.	410,113	4,852
	Contura Energy Inc.	526,551	4,765
*,^	Uranium Energy Corp.	4,831,743	4,441
	Universal Stainless & Alloy Products Inc.	275,820	4,110
	Synalloy Corp. LSB Industries Inc.	280,770	3,625
*,^		681,035 4,610,759	2,860
*,^	Ur-Energy Inc.	• • •	2,713
.,,,,	AgroFresh Solutions Inc. Northern Technologies International Corp.	1,033,962	2,668
* ^		159,019 2,164,803	2,236
*,^	Hi-Crush Inc. Marrone Bio Innovations Inc.	2,164,803 1,883,507	1,911 1,902
	Hallador Energy Co.	471,119	1,399
*	Ampco-Pittsburgh Corp.	471,119	1,266
	United-Guardian Inc.	52,756	1,037
*	Ramaco Resources Inc.	231,486	829
	Friedman Industries Inc.	125,686	757
*	Centrus Energy Corp. Class A	95,059	654
*	General Moly Inc.	1,633,202	371
*	Senestech Inc.	325,961	179
*	US Antimony Corp.	409,122	158
	Flexible Solutions International Inc.	54,447	140
*,^	US Gold Corp.	133,257	108
*	NL Industries Inc.	26,976	105
*	Paramount Gold Nevada Corp.	65,976	51
*	Golden Minerals Co.	130,813	41
*	Solitario Zinc Corp.	107,374	32
*	Ikonics Corp.	2,096	11
Co	nsumer Goods (7.9%)		19,444,965
501	Procter & Gamble Co.	70,247,910	8,773,964
		70,247,010	5,770,004

			Market
		Shares	Value (\$000)
	Coca-Cola Co.	108,645,223	6,013,513
	PepsiCo Inc.	39,282,426	5,368,729
	Philip Morris International Inc.	43,826,136	3,729,166
	NIKE Inc. Class B	35,096,598 53,033,136	3,555,636
	Altria Group Inc. Mondelez International Inc. Class A	52,623,126 40,570,077	2,626,420 2,234,600
*,^	Tesla Inc.	4,061,017	1,698,845
	Colgate-Palmolive Co.	24,144,877	1,662,133
	Kimberly-Clark Corp.	9,666,055	1,329,566
	General Motors Co.	36,177,178	1,324,085
	Estee Lauder Cos. Inc. Class A	6,261,287	1,293,206
	Activision Blizzard Inc.	21,645,599	1,286,182
	Ford Motor Co.	109,743,140	1,020,611
	VF Corp. General Mills Inc.	9,554,534 17,007,425	952,205 910,918
*	Electronic Arts Inc.	8,230,572	884,869
	Constellation Brands Inc. Class A	4,250,806	806,590
*	Lululemon Athletica Inc.	3,291,813	762,614
	Tyson Foods Inc. Class A	8,317,746	757,248
	Archer-Daniels-Midland Co.	15,666,228	726,130
	Aptiv plc	7,190,659	682,897
*	Monster Beverage Corp.	10,616,245	674,662
	Corteva Inc.	21,074,302	622,956
	Hershey Co. Kraft Heinz Co.	4,181,939 18,935,664	614,661 608,403
	McCormick & Co. Inc.	3,480,731	590,784
	Brown-Forman Corp. Class B	8,230,479	556,380
	Clorox Co.	3,538,701	543,332
	DR Horton Inc.	9,881,146	521,230
	Kellogg Co.	7,211,280	498,732
	Church & Dwight Co. Inc.	6,932,191	487,610
	Conagra Brands Inc.	13,688,139	468,682
	Lennar Corp. Class A Genuine Parts Co.	7,887,210	440,027
	Garmin Ltd.	3,894,236 4,014,916	413,685 391,695
*	Take-Two Interactive Software Inc.	3,198,333	391,572
	Hasbro Inc.	3,622,409	382,563
*	NVR Inc.	98,911	376,694
	Lamb Weston Holdings Inc.	4,100,190	352,739
	Hormel Foods Corp.	7,508,017	338,687
	JM Smucker Co.	3,046,937	317,278
	PulteGroup Inc.	7,280,355	282,478
	LKQ Corp. Campbell Soup Co.	7,784,363 5,484,164	277,902 271,027
	Molson Coors Brewing Co. Class B	4,964,569	267,590
	Whirlpool Corp.	1,783,732	263,154
*	US Foods Holding Corp.	6,160,319	258,056
	Fortune Brands Home & Security Inc.	3,924,027	256,396
	BorgWarner Inc.	5,818,734	252,417
	Lear Corp.	1,701,759	233,481
^	Keurig Dr Pepper Inc.	7,934,550	229,705
*	Pool Corp.	1,067,699	226,758
	Mohawk Industries Inc. PVH Corp.	1,615,537 2,085,691	220,327 219,310
	Bunge Ltd.	3,791,455	218,198
	Tapestry Inc.	7,785,989	209,988
	Newell Brands Inc.	10,756,552	206,741
	Gentex Corp.	7,131,260	206,664
*	Post Holdings Inc.	1,799,775	196,355
*	WABCO Holdings Inc.	1,436,623	194,662
	Leggett & Platt Inc.	3,684,117	187,264
*	Ingredion Inc.	1,877,205	174,486
	Middleby Corp. Polaris Inc.	1,566,526 1,637,223	171,566 166,506
	i Ulario IIIU.	1,037,223	100,500

Harley-Davidson Inc.	Market Value
Skechers U.S.A. Inc. Class A 3,745,337 W Wayfair Inc. 1,761,430 Ralph Lauren Corp. Class A 1,334,207 Capri Holdings Ltd. 4,057,555 Hanesbrands Inc. 10,144,260 Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Valvoline Inc. 5,481,887 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 5,108,089 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class A 8,492,762 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Saven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 2,31,968 Energizer	(\$000)
'A Wayfair Inc. 1,761,430 Ralph Lauren Corp. Class A 1,334,207 Capri Holdings Ltd. 4,057,555 Hanesbrands Inc. 10,144,260 Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 'Mulder Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 6,531,268 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,59,343 Sanderson Farms Inc. 559,343 Coty Inc. Class A 2,159,509 Boston Beer Co. Inc. Class A 2,159,509 Boston Beer Co. Inc. Class A 2,159,509 Boston Beer Co. Inc. Class A 2,159,509 <td< td=""><td>162,067</td></td<>	162,067
Ralph Lauren Corp. Class A 1,334,207 Capri Holdings Ltd. 4,057,555 Hanesbrands Inc. 10,144,260 Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 9,706,289 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Vuloder Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,304,627 Thor Industries Inc. 5,304,627 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 5,59,433 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home </td <td>161,761</td>	161,761
Capri Holdings Ltd. 4,057,555 Hanesbrands Inc. 10,144,260 Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 5,108,089 Thor Industries Inc. 6,531,268 Under Armour Inc. Class C 5,334,627 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 231,968 Boston Beer Co. Inc. Class A 231,968 Boston Beer Co. Inc. Class A 231,968 Boston Beer Co. Inc. Class A 231,968 Energizer	159,180
Hanesbrands Inc. 10,144,260 Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 5,108,089 Thor Industries Inc. 6,531,268 Under Armour Inc. Class C 5,531,268 Under Armour Inc. Class C 5,531,268 Under Armour Inc. Class C 5,531,268 Under June & Rubber Co. 5,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 2,159,509 Boston Beer Co. Inc. Class A 21,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home <td>156,396</td>	156,396
¹ Zynga Inc. Class A 24,014,936 Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 ¹ Deckers Outdoor Corp. 789,599 ¹^ Mattel Inc. 9,706,289 □ Darling Ingredients Inc. 4,621,428 ¹ Herbalife Nutrition Ltd. 2,702,156 ¹ Helen of Troy Ltd. 705,039 ¹ Tempur Sealy International Inc. 1,368,424 ¹ Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 5,108,089 Goodyear Tire & Rubber Co. 6,531,268 ¹ Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 ¹ Boston Beer Co. Inc. Class A 231,968 ¹ Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Helen of Troy Ltd. 559,843 Columbia Sportswear Co. 851,529	154,796
Toll Brothers Inc. 3,590,882 Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Mattel Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Mulder Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 6,531,268 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	150,642 146,971
Brunswick Corp. 2,304,070 Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 Darling Ingredients Inc. 9,706,289 Darling Ingredients Inc. 4,621,428 Herbalife Nutrition Ltd. 2,702,156 Helen of Troy Ltd. 705,039 Tempur Sealy International Inc. 1,368,424 Vulnder Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	141,876
Carter's Inc. 1,246,513 Deckers Outdoor Corp. 789,599 ↑ Mattel Inc. 9,706,289 ↑ Darling Ingredients Inc. 4,621,428 • Herbalife Nutrition Ltd. 2,702,156 ↑ Helen of Troy Ltd. 705,039 • Tempur Sealy International Inc. 1,368,424 ↑ Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 • Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 • Boston Beer Co. Inc. Class A 231,968 • Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	138,198
⁺ Deckers Outdoor Corp. 789,599 ↑ Mattel Inc. 9,706,289 ⁺ Darling Ingredients Inc. 4,621,428 ⁺ Herbalife Nutrition Ltd. 2,702,156 ⁺ Helen of Troy Ltd. 705,039 ⁺ Tempur Sealy International Inc. 1,368,424 ⁺ Under Armour Inc. Class A 5,481,887 ∀ Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 6,531,268 Goodyear Tire & Rubber Co. 6,531,268 ⁺ Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 ⁺ Boston Beer Co. Inc. Class A 231,968 ← Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	136,294
∴ Mattel Inc. 9,706,289 Land Ingredients Inc. 4,621,428 Land Inc. 4,621,428 Land Inc. 4,621,428 Lancaster Colony Corp. 9,706,289 Lancaster Colony Corp. 9,707,299 Lancaster Colony Corp. 9,851,529	133,332
** Herbalife Nutrition Ltd. 2,702,156 ** Helen of Troy Ltd. 705,039 ** Tempur Sealy International Inc. 1,368,424 ** Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 ** Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 ** Boston Beer Co. Inc. Class A 231,968 * Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	131,520
* Helen of Troy Ltd. 705,039 * Tempur Sealy International Inc. 1,368,424 * Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 * Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 * Boston Beer Co. Inc. Class A 231,968 * Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	129,770
* Tempur Sealy International Inc. 1,368,424 ★ Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 * Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 * Boston Beer Co. Inc. Class A 231,968 * Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	128,812
*** Under Armour Inc. Class A 5,481,887 Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 * Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 * Boston Beer Co. Inc. Class A 231,968 * Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	126,759
Valvoline Inc. 5,304,627 Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Fnergizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	119,135
Flowers Foods Inc. 5,108,089 Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Fenergizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home Columbia Sportswear Co. 851,529	118,409
Thor Industries Inc. 1,472,493 Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Fenergizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	113,572
Goodyear Tire & Rubber Co. 6,531,268 Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Fenergizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	111,050
Under Armour Inc. Class C 5,281,232 Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Fenergizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	109,392
Sanderson Farms Inc. 559,343 Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	101,594
Coty Inc. Class A 8,492,762 Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	101,294
Steven Madden Ltd. 2,159,509 Boston Beer Co. Inc. Class A 231,968 Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	98,567 95,544
* Boston Beer Co. Inc. Class A 231,968 ^ Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	92,880
^ Energizer Holdings Inc. 1,743,502 Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	87,649
Lancaster Colony Corp. 539,254 KB Home 2,489,883 Columbia Sportswear Co. 851,529	87,559
KB Home2,489,883Columbia Sportswear Co.851,529	86,335
Columbia Sportswear Co. 851,529	85,328
	85,315
*^ Beyond Meat Inc. 1,127,143	85,212
Spectrum Brands Holdings Inc. 1,308,758	84,140
J&J Snack Foods Corp. 420,985	77,575
* Crocs Inc. 1,851,517	77,560
* TreeHouse Foods Inc. 1,582,810	76,766
WD-40 Co. 387,137	75,159
Wolverine World Wide Inc. 2,185,137	73,727
Dana Inc. 4,032,119	73,385
LCI Industries 668,213 * Fox Factory Holding Corp. 1,012,342	71,586
* Fox Factory Holding Corp. 1,012,342 Herman Miller Inc. 1,659,985	70,429 69,138
* Visteon Corp. 785,865	68,048
Kontoor Brands Inc. 1,580,205	66,353
* Taylor Morrison Home Corp. Class A 2,989,071	65,341
Nu Skin Enterprises Inc. Class A 1,562,218	64,020
Meritage Homes Corp. 1,024,336	62,597
* TRI Pointe Group Inc. 3,942,953	61,431
* Dorman Products Inc. 790,259	59,838
* Hain Celestial Group Inc. 2,193,727	56,938
* Freshpet Inc. 960,760	56,771
Callaway Golf Co. 2,673,810	56,685
* Welbilt Inc. 3,588,544	56,017
* Meritor Inc. 2,098,924	54,971
MDC Holdings Inc. 1,405,561	53,636
Steelcase Inc. Class A 2,413,679 * Cavco Industries Inc. 248,889	49,384 48,628
Winnebago Industries Inc. 248,889 899,276	48,628 47,644
* Edgewell Personal Care Co. 1,535,442	47,544
* Hostess Brands Inc. Class A 3,223,157	46,865
* Pilgrim's Pride Corp. 1,393,176	45,578
HNI Corp. 1,203,710	45,091
* Skyline Champion Corp. 1,419,706	45,005
* American Woodmark Corp. 429,369	44,873
Vector Group Ltd. 3,264,524	,

			Market
			Value
_		Shares	(\$000)
	La-Z-Boy Inc.	1,340,093	42,186
*	Fitbit Inc. Class A G-III Apparel Group Ltd.	6,330,754 1,238,480	41,593 41,489
*	Gentherm Inc.	928,252	41,205
	Calavo Growers Inc.	453,747	41,105
	Cooper Tire & Rubber Co.	1,426,937	41,024
*,^	iRobot Corp.	795,961	40,300
*	LGI Homes Inc.	551,390	38,956
*,^	YETI Holdings Inc.	1,084,148	37,707
	Universal Corp.	657,191	37,499
*	Coca-Cola Consolidated Inc.	130,883	37,177
*	Sleep Number Corp.	744,054	36,637
	Inter Parfums Inc. Oxford Industries Inc.	493,736 470,129	35,900 35,457
	Cal-Maine Foods Inc.	817,054	34,929
	Knoll Inc.	1,345,340	33,983
^	Medifast Inc.	309,565	33,922
*	American Axle & Manufacturing Holdings Inc.	3,137,752	33,762
^	B&G Foods Inc.	1,845,779	33,095
	Acushnet Holdings Corp.	966,503	31,411
*	Delphi Technologies plc	2,445,472	31,375
*	M/I Homes Inc.	796,923	31,359
	Fresh Del Monte Produce Inc.	881,466	30,834
*	Central Garden & Pet Co. Class A	1,022,445	30,019
	Seaboard Corp.	6,874	29,218
-	Sonos Inc. Standard Motor Products Inc.	1,838,860 531,214	28,723 28,271
	Interface Inc. Class A	1,682,177	27,907
*	USANA Health Sciences Inc.	345,962	27,175
	ACCO Brands Corp.	2,744,110	25,685
	Levi Strauss & Co. Class A	1,267,526	24,451
*	Malibu Boats Inc. Class A	585,658	23,983
*	BellRing Brands Inc. Class A	1,098,256	23,382
*	Stoneridge Inc.	740,741	21,719
	Sturm Ruger & Co. Inc.	461,151	21,688
	Andersons Inc.	836,620	21,150
*	Kimball International Inc. Class B Century Communities Inc.	1,008,330 759,958	20,842 20,785
*	Glu Mobile Inc.	3,422,460	20,765
	John B Sanfilippo & Son Inc.	224,805	20,700
	Lennar Corp. Class B	453,325	20,264
	Tenneco Inc. Class A	1,456,659	19,082
	MGP Ingredients Inc.	391,724	18,979
*	William Lyon Homes Class A	930,802	18,597
*	Universal Electronics Inc.	351,326	18,360
*,^	National Beverage Corp.	334,076	17,045
*	elf Beauty Inc.	940,340	15,168
^	Tootsie Roll Industries Inc.	439,699	15,011
*	Phibro Animal Health Corp. Class A	600,312	14,906
	Cooper-Standard Holdings Inc. National Presto Industries Inc.	448,965 164,379	14,888 14,529
*,^	GoPro Inc. Class A	3,241,645	14,069
*	American Outdoor Brands Corp.	1,496,453	13,887
	Ethan Allen Interiors Inc.	717,456	13,675
٨	Camping World Holdings Inc. Class A	911,815	13,440
*	Central Garden & Pet Co.	380,527	11,823
*	Primo Water Corp.	1,038,170	11,653
*	Motorcar Parts of America Inc.	517,117	11,392
	Tupperware Brands Corp.	1,318,193	11,310
*	Vista Outdoor Inc.	1,476,522	11,044
*	Johnson Outdoors Inc. Class A	143,760	11,026
*	Beazer Homes USA Inc. Fossil Group Inc.	770,090 1,283,633	10,881 10,115
	Clarus Corp.	714,557	9,689
	οιατάδο στη.	714,007	3,003

			Market Value
		Shares	(\$000)
*	Movado Group Inc.	443,817	9,649
*	Unifi Inc. Modine Manufacturing Co.	359,769 1,178,722	9,088 9,076
*	MasterCraft Boat Holdings Inc.	553,293	8,714
*	Seneca Foods Corp. Class A	206,433	8,420
	Alico Inc.	234,274	8,394
*,^	Funko Inc. Class A	483,902	8,304
*	Arlo Technologies Inc.	1,927,657	8,115
	Limoneira Co.	420,319	8,083
*	Green Brick Partners Inc.	661,222	7,591
*	Vera Bradley Inc.	642,798	7,585
	Hooker Furniture Corp.	273,488	7,026
*	Farmer Brothers Co.	424,072	6,387
*	Lifevantage Corp.	407,875	6,367
	Turning Point Brands Inc.	222,195	6,355
	Oil-Dri Corp. of America	173,554	6,291
*	Rocky Brands Inc. Delta Apparel Inc.	213,146 197,895	6,273 6,155
*	ZAGG Inc.	756.831	6,138
*,^	Akoustis Technologies Inc.	750,831	6,010
*	Craft Brew Alliance Inc.	331,080	5,463
	Titan International Inc.	1,419,716	5,139
	Culp Inc.	376,330	5,126
*	Veru Inc.	1,418,778	4,753
	Weyco Group Inc.	175,151	4,633
	Bassett Furniture Industries Inc.	259,296	4,325
	Flexsteel Industries Inc.	205,657	4,097
*,^	22nd Century Group Inc.	3,650,521	4,016
*	XPEL Inc.	269,519	3,948
*,^	Celsius Holdings Inc.	794,634	3,838
*,^	Revion Inc. Class A	177,875	3,810
	Superior Group of Cos. Inc.	281,058	3,806
*,^	Lovesac Co.	229,480	3,683
*,^	Hamilton Beach Brands Holding Co. Class A Eastman Kodak Co.	192,248 742,241	3,672 3,451
,	Strattec Security Corp.	154,397	3,429
*,^	New Age Beverages Corp.	1,696,362	3,087
,	Marine Products Corp.	201,101	2,896
*	Lakeland Industries Inc.	256,793	2,773
*	Legacy Housing Corp.	163,128	2,714
*,^	Hovnanian Enterprises Inc. Class A	107,089	2,235
*	Nature's Sunshine Products Inc.	242,920	2,169
	Lifetime Brands Inc.	304,548	2,117
*,^	Pyxus International Inc.	225,769	2,018
	Escalade Inc.	203,212	1,998
*	Shiloh Industries Inc.	465,350	1,657
	Acme United Corp.	67,139	1,597
	Rocky Mountain Chocolate Factory Inc.	162,523	1,500
	Natural Alternatives International Inc. Superior Industries International Inc.	185,746 392,385	1,482 1,448
*,^	Vuzix Corp.	699,898	1,446
,	Kewaunee Scientific Corp.	97,556	1,312
*	Core Molding Technologies Inc.	37,330	1,235
*	Garrett Motion Inc.	108,767	1,087
*	Coffee Holding Co. Inc.	230,234	1,059
*	Vince Holding Corp.	60,190	1,042
*	RiceBran Technologies	695,111	1,022
*	Centric Brands Inc.	424,318	921
*	S&W Seed Co.	431,256	906
*	US Auto Parts Network Inc.	410,256	903
*	Bridgford Foods Corp.	34,961	867
*	Charles & Colvard Ltd.	609,632	866
*,^	cbdMD Inc.	353,500	799
	Crown Crafts Inc.	113,860	700

			Market Value
		Shares	(\$000)
*	New Home Co. Inc.	136,011	634
*	Reed's Inc.	681,674	620
	Mannatech Inc.	37,357	585
*	Libbey Inc.	385,864	560
	Tandy Leather Factory Inc.	93,624	535
	LS Starrett Co. Class A	85,681	490
	Willamette Valley Vineyards Inc.	66,863	463 394
*,^	Nautilus Inc. Sequential Brands Group Inc.	225,288 860,887	295
*,^	Innovate Biopharmaceuticals Inc.	514,938	287
*,^	JAKKS Pacific Inc.	260,169	268
,	Jerash Holdings US Inc.	41,854	245
*	Lipocine Inc.	618,404	238
	CompX International Inc.	12,502	182
*	Greenlane Holdings Inc. Class A	56,000	182
	P&F Industries Inc. Class A	19,462	134
*	Zedge Inc. Class B	81,694	126
	Unique Fabricating Inc.	25,425	98
*	Lifeway Foods Inc.	43,222	86
*,^	Nova Lifestyle Inc.	45,062	83
	Ocean Bio-Chem Inc.	24,882	82
*	Koss Corp.	17.870	28
*	Hovnanian Enterprises Inc. Class B	772	16
*	Cyanotech Corp.	600	1
*	Emerson Radio Corp.	432	
Cor	nsumer Services (13.2%)		70,784,788
*	Amazon.com Inc.	11,871,374	21,936,400
	Walt Disney Co.	50,771,905	7,343,141
	Home Depot Inc.	30,725,148	6,709,758
	Comcast Corp. Class A	127,898,595	5,751,600
	Walmart Inc.	40,068,176	4,761,702
	McDonald's Corp.	21,217,409	4,192,772
*	Netflix Inc.	12,347,098	3,995,150
	Costco Wholesale Corp.	12,386,682	3,640,694
	Starbucks Corp.	31,609,975	2,779,149
	CVS Health Corp.	36,634,757	2,721,596
	Lowe's Cos. Inc.	21,739,946	2,603,576
*	Booking Holdings Inc.	1,179,201	2,421,760
*	Charter Communications Inc. Class A	4,235,727	2,054,666
	TJX Cos. Inc.	30,660,288	1,872,117
	Target Corp.	14,275,583	1,830,272
	Walgreens Boots Alliance Inc. Ross Stores Inc.	21,390,905 10,195,715	1,261,208
	Sysco Corp.	13,666,686	1,186,985 1,169,048
	Dollar General Corp.	7,247,345	1,130,441
	Marriott International Inc. Class A	7,247,345	1,116,141
	Delta Air Lines Inc.	7,370,676 16,395,146	958,788
*	O'Reilly Automotive Inc.	2,132,320	934,511
	Hilton Worldwide Holdings Inc.	7,948,107	881,525
	Yum! Brands Inc.	8,528,835	859,110
*	Uber Technologies Inc.	28,840,617	857,720
*	AutoZone Inc.	671,407	799,854
	eBay Inc.	21,788,419	786,780
	Las Vegas Sands Corp.	10,822,395	747,178
	Southwest Airlines Co.	13,344,157	720,318
	McKesson Corp.	5,078,274	702,427
*	Chipotle Mexican Grill Inc. Class A	782,580	655,106
	Kroger Co.	22,585,591	654,756
	Noger Co.		
	ViacomCBS Inc. Class B	15,384,339	645,681
	0	15,384,339 4,718,677	645,681 629,991
*	ViacomCBS Inc. Class B		
*	ViacomCBS Inc. Class B Royal Caribbean Cruises Ltd.	4,718,677	629,991

				Market Value
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	*,^	Carvana Co. Class A	1,422,556	130,946

			Market Value
		Shares	(\$000)
*	Grand Canyon Education Inc.	1,359,164	130,194
	Marriott Vacations Worldwide Corp.	1,010,047	130,054
	New York Times Co. Class A	3,962,669	127,479
*	GrubHub Inc.	2,569,600	124,985
	Nordstrom Inc.	3,050,761	124,868
*	Liberty Media Corp-Liberty SiriusXM Class A	2,578,049	124,623
	Chegg Inc.	3,244,092	122,984
	L Brands Inc.	6,603,789	119,661
	Dolby Laboratories Inc. Class A	1,717,780	118,183
	Foot Locker Inc.	3,020,365	117,764
	Floor & Decor Holdings Inc. Class A	2,276,675	115,678
	Wendy's Co.	5,175,892	114,957
	frontdoor Inc.	2,371,337	112,449
	AutoNation Inc.	2,252,895	109,558
	Aaron's Inc.	1,898,105	108,401
	Texas Roadhouse Inc. Class A	1,865,456	105,062
	Choice Hotels International Inc.	1,009,443	104,407
	Eldorado Resorts Inc.	1,737,193	103,606
٨	Cracker Barrel Old Country Store Inc.	670,476	103,079
	TEGNA Inc.	6,091,391	101,665
	Six Flags Entertainment Corp.	2,246,343	101,333
	Cinemark Holdings Inc.	2,989,667	101,200
*	Ollie's Bargain Outlet Holdings Inc.	1,514,283	98,898
*	Murphy USA Inc.	824,488	96,465
	AMERCO	247,196	92,901
*	Qurate Retail Group Inc. QVC Group Class A	11,003,782	92,762
	Strategic Education Inc.	581,630	92,421
	TripAdvisor Inc.	3,024,365	91,880
	Morningstar Inc.	600,381	90,844
*,^	RH	420,946	89,872
	Lithia Motors Inc. Class A	609,966	89,665
	Hyatt Hotels Corp. Class A	998,255	89,553
*	BJ's Wholesale Club Holdings Inc.	3,867,212	87,940
*	LiveRamp Holdings Inc.	1,817,524	87,368
	SkyWest Inc.	1,348,608	87,161
٨	World Wrestling Entertainment Inc. Class A	1,338,806	86,848
	Dick's Sporting Goods Inc.	1,708,485	84,553
	Hilton Grand Vacations Inc.	2,409,284	82,855
*	Penn National Gaming Inc.	3,116,455	79,657
	KAR Auction Services Inc.	3,640,234	79,321
*	Spirit Airlines Inc.	1,936,542	78,062
*	Cargurus Inc.	2,190,803	77,072
	Extended Stay America Inc.	5,161,078	76,694
	Graham Holdings Co. Class B	115,792	73,990
	Wingstop Inc.	826,925	71,306
*	National Vision Holdings Inc.	2,197,486	71,264
	Monro Inc.	894,669	69,963
	Simply Good Foods Co.	2,401,388	68,536
	Yelp Inc. Class A	1,895,200	66,010
	Boyd Gaming Corp.	2,191,712	65,620
	John Wiley & Sons Inc. Class A	1,346,781	65,346
*	Sprouts Farmers Market Inc.	3,338,689	64,604
	Allegiant Travel Co. Class A	365,445	63,602
	American Eagle Outfitters Inc.	4,305,376	63,289
	Hillenbrand Inc.	1,851,769	61,682
	Asbury Automotive Group Inc.	538,214	60,167
*	Sally Beauty Holdings Inc.	3,282,607	59,908
	Sinclair Broadcast Group Inc. Class A	1,790,781	59,705
^	Bed Bath & Beyond Inc.	3,379,594	58,467
*	Laureate Education Inc. Class A	3,249,528	57,224
	Adtalem Global Education Inc.	1,558,503	54,501
*			
	Bloomin' Brands Inc.	2,449,200	54,054
	Bloomin' Brands Inc. Gray Television Inc.	2,449,200 2,479,178	54,054 53,154

			Market
		Shares	Value (\$000)
_	VANA/ International Inc		
*	WW International Inc. Avis Budget Group Inc.	1,320,604 1,537,057	50,460 49,555
	Group 1 Automotive Inc.	494,697	49,470
*	Shake Shack Inc. Class A	807,999	48,132
*	AMC Networks Inc. Class A	1,194,360	47,177
	PriceSmart Inc.	657,878	46,722
*	Urban Outfitters Inc.	1,652,154	45,880
*	SeaWorld Entertainment Inc.	1,443,859	45,785
	Red Rock Resorts Inc. Class A	1,903,807	45,596
	Penske Automotive Group Inc.	902,068	45,302
	Brinker International Inc.	1,062,550	44,627
	Cheesecake Factory Inc.	1,139,835	44,294
*	Hertz Global Holdings Inc.	2,803,117	44,149
	Papa John's International Inc.	675,134	42,635
	Office Depot Inc.	15,349,532	42,058
	Scientific Games Corp.	1,569,435	42,029
	2U Inc. Viad Corp.	1,702,372 588,048	40,840 39,693
	Rent-A-Center Inc.	1,365,097	39,693
	Dine Brands Global Inc.	462,475	39,369 38,626
*	Stamps.com Inc.	459,126	38,346
*,^	Stitch Fix Inc. Class A	1,479,844	37,973
,	Hawaiian Holdings Inc.	1,273,863	37,311
*	Career Education Corp.	2,014,485	37,046
*	Liberty Media Corp-Liberty Formula One Class A	817,228	35,778
*	Boot Barn Holdings Inc.	798,229	35,545
*	Chewy Inc.	1,223,246	35,474
	Dave & Buster's Entertainment Inc.	875,757	35,179
	Meredith Corp.	1,074,843	34,900
	Core-Mark Holding Co. Inc.	1,265,344	34,405
*	Herc Holdings Inc.	683,570	33,454
	Matthews International Corp. Class A	869,499	33,189
*	Groupon Inc. Class A	13,775,955	32,925
*,^	Trupanion Inc.	857,148	32,109
*	Denny's Corp.	1,611,851	32,044
	Signet Jewelers Ltd.	1,454,412	31,619
*,^	Big Lots Inc. Peloton Interactive Inc. Class A	1,096,533 1,091,899	31,492 31,010
*	Liberty Media Corp-Liberty Braves Class C	1,048,151	30,962
	Abercrombie & Fitch Co.	1,712,497	29,609
*	Clear Channel Outdoor Holdings Inc.	10,044,097	28,726
*	Grocery Outlet Holding Corp.	880,523	28,573
*	Liberty Broadband Corp. Class A	228,766	28,495
	Designer Brands Inc. Class A	1,777,282	27,974
*	Chefs' Warehouse Inc.	712,966	27,171
*,^	Accel Entertainment Inc.	2,138,642	26,733
*	SP Plus Corp.	628,299	26,659
	Caleres Inc.	1,113,964	26,457
٨	Children's Place Inc.	415,704	25,990
*	Lions Gate Entertainment Corp. Class B	2,575,081	25,571
	Guess? Inc.	1,121,622	25,102
*,^	iHeartMedia Inc. Class A	1,470,187	24,846
*	Upwork Inc.	2,225,071	23,742
	Scholastic Corp.	617,255	23,733
*,^	Lions Gate Entertainment Corp. Class A EW Scripps Co. Class A	2,220,255 1,477,545	23,668 23,212
*	Cars.com Inc.	1,886,436	
^	Buckle Inc.	844,423	23,052 22,833
^	Rite Aid Corp.	1,450,387	22,437
*	K12 Inc.	1,073,754	21,851
*	MSG Networks Inc.	1,233,107	21,456
	Marcus Corp.	658,587	20,923
*	QuinStreet Inc.	1,356,201	20,763
	Gannett Co. Inc.	3,150,801	20,102
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			Market Value
		Shares	(\$000)
*	Zumiez Inc.	576,061	19,897
٨	BJ's Restaurants Inc.	521,034 367,614	19,778
*	Dillard's Inc. Class A Quotient Technology Inc.	267,614 1,071,330	19,664
*	America's Car-Mart Inc.	1,971,330 175,260	19,437 19,219
*	Genesco Inc.	398,620	19,102
	Ingles Markets Inc. Class A	396,996	18,861
	Sonic Automotive Inc. Class A	607.737	18,840
*	ANGI Homeservices Inc. Class A	2,204,341	18,671
*	Michaels Cos. Inc.	2,249,893	18,202
*	Providence Service Corp.	304,886	18,043
*	Houghton Mifflin Harcourt Co.	2,845,268	17,783
*	TechTarget Inc.	680,862	17,770
	Weis Markets Inc.	429,300	17,382
	Ruth's Hospitality Group Inc.	749,333	16,309
*	Monarch Casino & Resort Inc.	326,726	15,863
	National CineMedia Inc.	2,134,955	15,564
	Entercom Communications Corp. Class A	3,353,791	15,562
^	Digital Turbine Inc. GameStop Corp. Class A	2,120,315 2,403,724	15,118 14,615
*	BrightView Holdings Inc.	857,548	14,467
*,^	HF Foods Group Inc.	741,848	14,467
*	Hibbett Sports Inc.	505,798	14,183
	SpartanNash Co.	987,351	14,060
*	Liberty TripAdvisor Holdings Inc. Class A	1,850,423	13,601
*	Lindblad Expeditions Holdings Inc.	817,923	13,373
*	TrueCar Inc.	2,753,015	13,077
	Carriage Services Inc. Class A	501,308	12,833
*	Regis Corp.	710,261	12,692
	Winmark Corp.	64,003	12,692
	Chico's FAS Inc.	3,327,478	12,678
٨	PetMed Express Inc.	537,791	12,649
*	United Natural Foods Inc.	1,395,922	12,228
*	Red Robin Gourmet Burgers Inc.	368,581	12,171
	American Public Education Inc. MarineMax Inc.	432,743	11,853
*	Rubicon Project Inc.	674,689 1,373,422	11,261 11,207
*	Chuy's Holdings Inc.	425,455	11,028
*	Care.com Inc.	704,764	10,593
٨	AMC Entertainment Holdings Inc. Class A	1,458,982	10,563
٨	Twin River Worldwide Holdings Inc.	411,519	10,555
*	Avid Technology Inc.	1,218,377	10,454
	Cato Corp. Class A	595,368	10,359
*	1-800-Flowers.com Inc. Class A	684,361	9,923
	Haverty Furniture Cos. Inc.	491,867	9,916
*	Sportsman's Warehouse Holdings Inc.	1,220,098	9,797
٨	Shoe Carnival Inc.	251,857	9,389
*	Express Inc.	1,921,945	9,360
*	PlayAGS Inc.	769,543	9,335
*,^	Clean Energy Fuels Corp.	3,934,637	9,207
*	RealReal Inc. Golden Entertainment Inc.	485,761 474.703	9,157 9,124
*,^	JC Penney Co. Inc.	7,959,422	8,915
,	Tilly's Inc. Class A	7,939,422	8,616
	Tribune Publishing Co.	646,469	8,508
*	comScore Inc.	1,720,013	8,497
*	At Home Group Inc.	1,523,248	8,378
	News Corp. Class B	574,954	8,343
*	Liberty Media Corp-Liberty Braves Class A	270,973	8,034
*	Cumulus Media Inc. Class A	451,713	7,937
*	El Pollo Loco Holdings Inc.	516,852	7,825
	Citi Trends Inc.	334,520	7,734
*	Titan Machinery Inc.	522,316	7,720
*	Century Casinos Inc.	948,499	7,512

			Market Value
		Shares	(\$000)
*,^	Daily Journal Corp.	25,274	7,340
*	Collectors Universe Inc.	315,174	7,265
*,^	Mesa Air Group Inc.	808,445 738,755	7,227
-,,,,	Lumber Liquidators Holdings Inc. Nathan's Famous Inc.	101,682	7,218 7,207
*,^	Revolve Group Inc.	383,941	7,207
*	Hemisphere Media Group Inc. Class A	472.660	7,019
*	Carrols Restaurant Group Inc.	980,852	6,915
	Emerald Expositions Events Inc.	654,750	6,908
*	EverQuote Inc. Class A	200,482	6,887
*	Drive Shack Inc.	1,811,355	6,630
*	Del Taco Restaurants Inc.	831,624	6,574
*	Reading International Inc. Class A	532,243	5,956
*	Fiesta Restaurant Group Inc.	593,875	5,873
*	J Alexander's Holdings Inc.	613,284	5,863
	Village Super Market Inc. Class A	247,358	5,739
*,^	Habit Restaurants Inc. Class A	548,441	5,720
*	GNC Holdings Inc. Class A Diplomat Pharmacy Inc.	2,097,789 1,412,060	5,664 5,648
^	Tailored Brands Inc.	1,333,636	5,521
*,^	Overstock.com Inc.	780,934	5,506
*	Liquidity Services Inc.	869,451	5,182
	RCI Hospitality Holdings Inc.	251,776	5,161
*,^	Party City Holdco Inc.	2,204,048	5,157
*	Noodles & Co. Class A	924,586	5,122
*	Boston Omaha Corp. Class A	232,603	4,894
*	MDC Partners Inc. Class A	1,684,122	4,682
*	Conn's Inc.	374,719	4,643
*	Lands' End Inc.	263,846	4,433
*	Barnes & Noble Education Inc.	954,599	4,076
*,^	Stage Stores Inc.	491,015	3,987
*	Marchex Inc. Class B	968,568	3,661
	Entravision Communications Corp. Class A	1,329,451	3,483
*	Saga Communications Inc. Class A Kura Sushi USA Inc. Class A	114,200 136,273	3,472 3,468
*,^	Duluth Holdings Inc.	311,560	3,281
*	Purple Innovation Inc.	361,373	3,148
*	Tuesday Morning Corp.	1,611,057	2,980
*	Fluent Inc.	1,032,518	2,581
*	Biglari Holdings Inc.	4,283	2,570
*	Container Store Group Inc.	563,280	2,377
	Natural Grocers by Vitamin Cottage Inc.	229,137	2,262
*	Emmis Communications Corp. Class A	534,159	2,153
*	Potbelly Corp.	502,785	2,122
*	Full House Resorts Inc.	626,835	2,100
*	Red Lion Hotels Corp.	544,100	2,029
*,^	Gaia Inc. Class A	241,937	1,933
*	Big 5 Sporting Goods Corp. Leaf Group Ltd.	576,882	1,731
*	Zovio Inc. Class A	432,519 809,284	1,730 1,667
*	Travelzoo	153,651	1,644
*	RealNetworks Inc.	1,309,357	1,571
*	Lee Enterprises Inc.	1,095,334	1,555
*	Biglari Holdings Inc. Class B	12,371	1,415
*	Destination XL Group Inc.	1,098,835	1,407
*,^	Alkaline Water Co. Inc.	1,103,203	1,401
*	A-Mark Precious Metals Inc.	166,780	1,379
*,^	Ascena Retail Group Inc.	179,431	1,375
	CSS Industries Inc.	306,943	1,354
*	ONE Group Hospitality Inc.	348,465	1,268
*	Build-A-Bear Workshop Inc.	380,602	1,233
*,^	Youngevity International Inc.	363,755 614,875	1,186
*	Urban One Inc.	614,875	1,168
	Townsquare Media Inc. Class A	110,100	1,098

			Market Value
		Shares	(\$000)
*,^	Chicken Soup For The Soul Entertainment Inc.	131,647	1,053
*,^	Blink Charging Co. Value Line Inc.	521,114 32,972	969
	Ark Restaurants Corp.	32,972 42,422	953 942
	Beasley Broadcast Group Inc. Class A	297,756	920
*,^	iMedia Brands Inc.	229,676	916
*,^	LiveXLive Media Inc.	585,301	904
*,^	Francesca's Holdings Corp.	81,140	842
^	Pier 1 Imports Inc.	124,870	799
*,^	Blue Apron Holdings Inc. Class A	120,849	795
	AH Belo Corp. Class A	270,109	762
	Educational Development Corp.	122,697	758
*,^	HyreCar Inc.	238,994	629
*	Profire Energy Inc.	396,273	575
*,^	Good Times Restaurants Inc. SRAX Inc. Class A	350,735 204,105	558 509
*,^	VistaGen Therapeutics Inc.	204,105 735,612	508 507
*	BBQ Holdings Inc.	118,073	464
	Canterbury Park Holding Corp.	35,605	442
*,^	Net Element Inc.	135,845	436
*,^	Eastside Distilling Inc.	144,325	426
*,^	Interpace Diagnostics Group Inc.	846,133	423
*	Harte-Hanks Inc.	104,139	373
*	Global Eagle Entertainment Inc.	720,013	360
*,^	Stein Mart Inc.	499,303	334
	Salem Media Group Inc. Class A	220,213	317
*,^	Remark Holdings Inc.	612,365	315
*,^	Waitr Holdings Inc. RTW RetailWinds Inc.	972,900 377,613	313 302
*,^	Dolphin Entertainment Inc.	377,613 427,208	302 299
*,^	Monaker Group Inc.	129,486	280
^	J. Jill Inc.	217,239	245
*	Diversified Restaurant Holdings Inc.	227,068	236
	ViacomCBS Inc. Class A	5,113	229
*	AutoWeb Inc.	91,156	225
*	Rave Restaurant Group Inc.	135,922	224
*,^	Kirkland's Inc.	153,618	190
*	Luby's Inc.	66,837	147
*	Town Sports International Holdings Inc.	73,378	125
*	Lazydays Holdings Inc.	21,194	91
*,^	BioHiTech Global Inc. SPAR Group Inc.	50,469 51,600	86 67
*,^	FAT Brands Inc.	13,323	61
*	Live Ventures Inc.	3,993	30
	Haverty Furniture Cos. Inc. Class A	1,375	28
*	Insignia Systems Inc.	17,627	13
*	Envela Corp.	5,030	7
*	Urban One Inc. Class A	1,053	2
*	iPic Entertainment Inc. Class A	2,600	_
*,§	Universal Travel Group	42,843	
Fin	nancials (19.4%)	_	118,719,768
*	Berkshire Hathaway Inc. Class B	53,368,129	12,087,881
	JPMorgan Chase & Co.	83,026,240	11,573,858
	Visa Inc. Class A	48,235,974	9,063,540
	Bank of America Corp.	228,004,607	8,030,322
	Mastercard Inc. Class A	25,281,635	7,548,843
	Wells Fargo & Co.	107,227,939	5,768,863
	Citigroup Inc.	61,482,908	4,911,870
	American Tower Corp.	12,484,411	2,869,167
	US Bancorp	39,595,924	2,347,642
	Goldman Sachs Group Inc. American Express Co.	9,474,783 17,296,820	2,178,537 2,153,281
	Truist Financial Corp.	17,296,820 37,799,204	2,153,281 2,128,851
	rruser manual corp.	37,799,204	۷,۱۷۵,۵۵۱

		Market
	Shares	Value (\$000)
CME Group Inc.	10,094,539	2,026,176
S&P Global Inc.	6,882,117	1,879,162
PNC Financial Services Group Inc.	11,110,209	1,773,523
Morgan Stanley	34,192,250	1,747,908
Chubb Ltd. Crown Castle International Corp.	10,862,406	1,690,842
Marsh & McLennan Cos. Inc.	11,706,793 14,224,768	1,664,121 1,584,781
Prologis Inc.	17,749,166	1,582,161
Charles Schwab Corp.	32,517,058	1,546,511
BlackRock Inc.	3,044,473	1,530,457
Intercontinental Exchange Inc.	15,698,205	1,452,869
Equinix Inc.	2,402,827	1,402,530
Aon plc	6,602,848	1,375,307
Capital One Financial Corp.	13,127,500	1,350,951
American International Group Inc.	24,502,456	1,257,711
Simon Property Group Inc.	8,217,728	1,224,113
Progressive Corp.	16,469,177	1,192,204
Bank of New York Mellon Corp.	23,399,764	1,177,710
Moody's Corp.	4,520,726	1,073,266
Prudential Financial Inc. Aflac Inc.	11,319,728 19,676,397	1,061,111
Blackstone Group LP	18,565,943	1,040,881 1,038,579
Allstate Corp.	9,096,702	1,022,924
MetLife Inc.	19,419,041	989,789
Travelers Cos. Inc.	6,920,701	947,790
Welltower Inc.	11,436,887	935,309
Public Storage	4,175,599	889,236
Equity Residential	10,416,262	842,884
AvalonBay Communities Inc.	3,921,817	822,405
* IHS Markit Ltd.	10,718,561	807,644
State Street Corp.	9,739,530	770,397
SBA Communications Corp. Class A	3,175,530	765,271
T. Rowe Price Group Inc.	6,258,147	762,493
Discover Financial Services	8,839,586	749,774
Digital Realty Trust Inc. Realty Income Corp.	5,879,999 9,172,060	704,071 675,339
Weyerhaeuser Co.	20,963,730	633,105
Synchrony Financial	17,292,967	622,720
Hartford Financial Services Group Inc.	10,144,403	616,475
Fifth Third Bancorp	19,997,362	614,719
Ventas Inc.	10,484,785	605,391
Northern Trust Corp.	5,680,283	603,473
M&T Bank Corp.	3,534,469	599,976
Boston Properties Inc.	4,345,025	599,005
Ameriprise Financial Inc.	3,573,214	595,226
MSCI Inc. Class A	2,264,413	584,626
KeyCorp	27,759,487	561,852
Essex Property Trust Inc.	1,858,730	559,217
* CBRE Group Inc. Class A Alexandria Real Estate Equities Inc.	8,952,887 3,237,506	548,722 523,116
Arthur J Gallagher & Co.	5,237,500 5,233,799	498,415
Citizens Financial Group Inc.	12,250,445	497,491
Healthpeak Properties Inc.	14,376,860	495,570
Cincinnati Financial Corp.	4,585,961	482,214
Equifax Inc.	3,399,392	476,323
Regions Financial Corp.	27,174,867	466,321
* Arch Capital Group Ltd.	10,801,120	463,260
Invitation Homes Inc.	15,136,422	453,639
Huntington Bancshares Inc.	29,104,025	438,889
Principal Financial Group Inc.	7,849,143	431,703
KKR & Co. Inc. Class A	14,732,492	429,747
* Markel Corp.	370,856	423,951
Mid-America Apartment Communities Inc. First Republic Bank	3,209,152 3,508,560	423,159 412,080
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		Market
	Shares	Value (\$000)
Sun Communities Inc.	2,606,223	391,194
WP Carey Inc.	4,847,240	387,973
MarketAxess Holdings Inc.	1,015,174	384,863
UDR Inc.	8,226,501	384,178
Annaly Capital Management Inc.	40,687,377	383,275
TD Ameritrade Holding Corp.	7,635,768	379,498
Loews Corp. Cboe Global Markets Inc.	7,156,276 3,127,672	375,633 375,321
Host Hotels & Resorts Inc.	20,206,626	374,833
Extra Space Storage Inc.	3,461,371	365,590
SVB Financial Group	1,454,579	365,158
Duke Realty Corp.	10,298,922	357,064
Berkshire Hathaway Inc. Class A	1,041	353,513
Nasdag Inc.	3,242,363	347,257
Equity LifeStyle Properties Inc.	4,864,950	342,444
Fidelity National Financial Inc.	7,335,493	332,665
Lincoln National Corp.	5,598,331	330,358
Ally Financial Inc.	10,704,738	327,137
Vornado Realty Trust	4,805,900	319,592
Everest Re Group Ltd.	1,149,925	318,345
Western Union Co.	11,810,817	316,294
Raymond James Financial Inc.	3,530,127	315,805
Alleghany Corp.	386,611	309,123
Medical Properties Trust Inc.	14,559,970	307,361
VICI Properties Inc.	11,985,671	306,234 295,896
Regency Centers Corp. AXA Equitable Holdings Inc.	4,690,065 11,794,818	295,896
Comerica Inc.	4,066,342	292,276
Globe Life Inc.	2,763,521	290,861
E*TRADE Financial Corp.	6,373,389	289,161
Reinsurance Group of America Inc. Class A	1,766,451	288,037
Camden Property Trust	2,706,646	287,175
VEREIT Inc.	30,028,604	277,464
Federal Realty Investment Trust	2,116,560	272,465
AGNC Investment Corp.	15,364,472	271,644
WR Berkley Corp.	3,913,142	270,398
Apollo Global Management LLC	5,628,222	268,522
Brown & Brown Inc.	6,744,712	266,281
Liberty Property Trust	4,426,700	265,823
Omega Healthcare Investors Inc.	6,141,374	260,087
National Retail Properties Inc.	4,832,158	259,100
Iron Mountain Inc. Jones Lang LaSalle Inc.	8,078,247 1,443,149	257,454 251,238
Zions Bancorp NA	4,808,423	249,653
Kilroy Realty Corp.	2,971,998	249,351
SEI Investments Co.	3,766,782	246,649
Gaming and Leisure Properties Inc.	5,727,401	246,565
RenaissanceRe Holdings Ltd.	1,239,361	242,940
Kimco Realty Corp.	11,302,147	234,067
Voya Financial Inc.	3,781,334	230,586
STORE Capital Corp.	5,925,880	220,680
American Financial Group Inc.	2,004,242	219,765
Assurant Inc.	1,666,287	218,417
Lamar Advertising Co. Class A	2,423,973	216,364
Apartment Investment & Management Co.	4,165,848	215,166
People's United Financial Inc.	12,544,892	212,009
LPL Financial Holdings Inc.	2,267,543	209,181
SL Green Realty Corp.	2,269,433	208,515
CyrusOne Inc.	3,183,535	208,299
Douglas Emmett Inc.	4,667,679	204,911
TCF Financial Corp. Franklin Resources Inc.	4,295,641 7,732,896	201,036
East West Bancorp Inc.	7,733,886 4,102,967	200,926 199,814
Signature Bank	1,444,788	199,814
orginature Darik	1,444,700	137,372

			Market
		Shares	Value (\$000)
	Commerce Bancshares Inc.	2,870,875	195,047
*	GCI Liberty Inc. Class A	2,716,856	192,489
	Americold Realty Trust	5,424,396	190,179
*	Athene Holding Ltd. Class A	4,012,748	188,720
	American Homes 4 Rent Class A	7,197,882	188,656
	New Residential Investment Corp.	11,638,663	187,499
	Invesco Ltd.	10,261,582	184,503
	Starwood Property Trust Inc. Brixmor Property Group Inc.	7,403,948 8,400,366	184,062 181,532
	Prosperity Bancshares Inc.	2,523,347	181,403
	Old Republic International Corp.	8,108,341	181,384
	American Campus Communities Inc.	3,845,055	180,833
	Healthcare Trust of America Inc. Class A	5,829,205	176,508
	First American Financial Corp.	2,986,938	174,198
	Park Hotels & Resorts Inc.	6,711,741	173,633
	CubeSmart	5,439,620	171,239
	Cousins Properties Inc.	4,134,986	170,361
	Hudson Pacific Properties Inc. Popular Inc.	4,348,702 2,742,588	163,729 161.127
	Cullen/Frost Bankers Inc.	2,742,500 1,595,557	156,014
	EPR Properties	2,192,166	154,855
	Synovus Financial Corp.	3,937,053	154,332
	Primerica Inc.	1,175,626	153,490
	Unum Group	5,246,971	153,002
	Hanover Insurance Group Inc.	1,114,817	152,362
	New York Community Bancorp Inc.	12,503,613	150,293
	Western Alliance Bancorp	2,608,278	148,672
	First Industrial Realty Trust Inc. First Horizon National Corp.	3,550,695 8,816,010	147,389 145,993
*	Howard Hughes Corp.	1,147,337	145,482
	Jefferies Financial Group Inc.	6,754,113	144,335
	Rexford Industrial Realty Inc.	3,137,764	143,302
	Radian Group Inc.	5,677,635	142,849
	JBG SMITH Properties	3,572,115	142,492
	Highwoods Properties Inc.	2,911,348	142,394
	EastGroup Properties Inc.	1,073,051	142,362
	Life Storage Inc. Eaton Vance Corp.	1,313,712 3,037,187	142,249 141,806
	MGIC Investment Corp.	9,826,600	139,243
	Webster Financial Corp.	2,596,430	138,545
	Kemper Corp.	1,778,391	137,825
	Spirit Realty Capital Inc.	2,789,316	137,179
	Essent Group Ltd.	2,596,876	135,012
	Axis Capital Holdings Ltd.	2,240,776	133,192
	Blackstone Mortgage Trust Inc. Class A	3,560,021	132,504
*	Pinnacle Financial Partners Inc. Credit Acceptance Corp.	2,060,264 293,331	131,857 129,749
	First Financial Bankshares Inc.	3,688,075	129,749
	PacWest Bancorp	3,330,168	127,446
	Healthcare Realty Trust Inc.	3,758,580	125,424
	Assured Guaranty Ltd.	2,552,745	125,136
	Valley National Bancorp	10,804,590	123,713
	CIT Group Inc.	2,691,865	122,830
*,^	Zillow Group Inc.	2,673,443	122,818
	Lazard Ltd. Class A Rayonier Inc.	3,025,667 3,679,285	120,906 120,533
	Sterling Bancorp	5,706,002	120,533
	Ryman Hospitality Properties Inc.	1,380,007	119,591
	CoreSite Realty Corp.	1,062,923	119,175
	Erie Indemnity Co. Class A	717,666	119,133
*	Brighthouse Financial Inc.	3,024,692	118,659
	Glacier Bancorp Inc.	2,567,917	118,098
	STAG Industrial Inc.	3,701,775	116,865
	FNB Corp.	9,174,526	116,516

			Market
		Shares	Value (\$000)
	Sabra Health Care REIT Inc.	5,454,966	116,409
	Wintrust Financial Corp.	1,631,747	115,691
	Two Harbors Investment Corp.	7,841,525	114,643
	United Bankshares Inc.	2,927,970	113,195
	Service Properties Trust Affiliated Managers Group Inc.	4,634,141	112,749 112,050
	Stifel Financial Corp.	1,322,279 1,835,676	111,334
	IBERIABANK Corp.	1,480,012	110,749
	Janus Henderson Group plc	4,503,301	110,106
	Umpqua Holdings Corp.	6,215,051	110,006
	Bank of Hawaii Corp.	1,145,375	108,994
	Hancock Whitney Corp.	2,469,944	108,381
	Selective Insurance Group Inc.	1,662,011	108,346
	Weingarten Realty Investors	3,454,055	107,905
٨	Macerich Co.	4,005,424	107,826
	Outfront Media Inc.	4,004,425	107,399
	First Hawaiian Inc.	3,718,615	107,282
	Bank OZK	3,494,195	106,590
	SLM Corp.	11,925,818	106,259
	RLI Corp. Equity Commonwealth	1,179,005	106,134 105,559
	Chimera Investment Corp.	3,215,333 5,119,302	105,253
	Community Bank System Inc.	1,465,641	103,233
	Terreno Realty Corp.	1,891,583	102,410
	Physicians Realty Trust	5,261,252	99,648
	Pebblebrook Hotel Trust	3,708,297	99,419
	Associated Banc-Corp	4,492,443	99,013
	White Mountains Insurance Group Ltd.	88,708	98,955
	BankUnited Inc.	2,703,466	98,839
	Apple Hospitality REIT Inc.	6,004,146	97,567
	Interactive Brokers Group Inc.	2,053,839	95,750
	National Health Investors Inc.	1,171,458	95,450
	MFA Financial Inc. FirstCash Inc.	12,356,377	94,526
	Corporate Office Properties Trust	1,155,899 3,159,891	93,200 92,838
	UMB Financial Corp.	1,331,926	91,423
	CenterState Bank Corp.	3,599,594	89,918
	OneMain Holdings Inc.	2,125,028	89,570
	PS Business Parks Inc.	542,103	89,377
	QTS Realty Trust Inc. Class A	1,642,200	89,122
	Sunstone Hotel Investors Inc.	6,368,489	88,649
	Federated Investors Inc. Class B	2,714,520	88,466
	Old National Bancorp	4,822,497	88,203
	RLJ Lodging Trust	4,860,269	86,124
*	Zillow Group Inc. Class A	1,880,318	86,006
	BancorpSouth Bank	2,728,540	85,703
	Navient Corp. Home BancShares Inc.	6,244,029 4,304,823	85,418 84,633
	Columbia Banking System Inc.	2,058,780	83,761
	Cathay General Bancorp	2,196,445	83,575
	South State Corp.	961,753	83,432
	Legg Mason Inc.	2,318,148	83,245
	Atlantic Union Bankshares Corp.	2,215,640	83,197
	Retail Properties of America Inc.	6,143,531	82,323
	Washington Federal Inc.	2,235,910	81,946
	Fulton Financial Corp.	4,689,494	81,738
	Paramount Group Inc.	5,868,631	81,691
	CVB Financial Corp.	3,767,828	81,310
	Simmons First National Corp. Class A	3,034,204	81,286
^	Ameris Bancorp	1,910,687	81,281
^	Piedmont Office Realty Trust Inc. Class A Independent Bank Corp.	3,621,568 962,771	80,544 80,151
	Brandywine Realty Trust	5,088,899	80,151
*	Texas Capital Bancshares Inc.	1,407,790	79,920
	Toxas Sapital Bullothulos IIIo.	1,407,730	75,520

			Market Value
		Shares	(\$000)
_	Agree Realty Corp.	1,130,008	79,293
	PotlatchDeltic Corp.	1,820,779	78,785
	CNO Financial Group Inc.	4,340,524	78,694
*	Cannae Holdings Inc.	2,102,625	78,197
	Kennedy-Wilson Holdings Inc.	3,487,312	77,767
	Apollo Commercial Real Estate Finance Inc. American Equity Investment Life Holding Co.	4,248,041 2,546,649	77,697 76,221
	Arres Management Corp. Class A	2,095,914	74,803
	Investors Bancorp Inc.	6,181,415	73,652
	Lexington Realty Trust Class B	6,911,052	73,395
	First Midwest Bancorp Inc.	3,176,886	73,259
	BOK Financial Corp.	818,663	71,551
	Empire State Realty Trust Inc.	5,094,209	71,115
	Columbia Property Trust Inc.	3,378,971	70,654
	United Community Banks Inc. Xenia Hotels & Resorts Inc.	2,287,977	70,653
	International Bancshares Corp.	3,237,245 1,622,610	69,957 69,886
	Evercore Inc. Class A	927,534	69,342
	First Financial Bancorp	2,689,196	68,413
	WesBanco Inc.	1,792,172	67,726
	Washington REIT	2,318,644	67,658
*	Enstar Group Ltd.	325,844	67,404
	WSFS Financial Corp.	1,519,893	66,860
*,^	LendingTree Inc.	218,588	66,328
	Invesco Mortgage Capital Inc. First BanCorp	3,973,444 6,213,020	66,158 65,796
	Colony Capital Inc.	13,763,198	65.375
*	Cushman & Wakefield plc	3,146,995	64,325
	American Assets Trust Inc.	1,400,596	64,287
	Urban Edge Properties	3,340,623	64,073
*	NMI Holdings Inc. Class A	1,917,694	63,629
	DiamondRock Hospitality Co.	5,733,393	63,526
	Cadence BanCorp Class A First Merchants Corp.	3,477,658 1,507,513	63,050 62,697
*	Genworth Financial Inc. Class A	1,307,313	62,638
	Acadia Realty Trust	2,403,283	62,317
	PennyMac Mortgage Investment Trust	2,784,287	62,062
	SITE Centers Corp.	4,335,071	60,778
	Argo Group International Holdings Ltd.	922,684	60,666
	Kinsale Capital Group Inc.	586,069	59,580
*	First Citizens BancShares Inc. Class A eHealth Inc.	110,710 609,120	58,921 58,524
	CoreCivic Inc.	3,325,663	57,800
	Newmark Group Inc. Class A	4,290,825	57,733
	Retail Opportunity Investments Corp.	3,250,606	57,406
	Trustmark Corp.	1,658,514	57,235
	Houlihan Lokey Inc. Class A	1,169,950	57,175
	Hannon Armstrong Sustainable Infrastructure Capital Inc.	1,774,573	57,106
	CareTrust REIT Inc. Four Corners Property Trust Inc.	2,758,099 2,016,398	56,900 56,842
	Essential Properties Realty Trust Inc.	2,010,396	56,736
	National Storage Affiliates Trust	1,681,886	56,545
	Santander Consumer USA Holdings Inc.	2,416,616	56,476
	Senior Housing Properties Trust	6,681,106	56,389
	ProAssurance Corp.	1,550,920	56,050
	Great Western Bancorp Inc.	1,613,004	56,036
	Independent Bank Group Inc.	990,948	54,938 54,572
	Renasant Corp. GEO Group Inc.	1,540,719 3,285,257	54,572 54,568
	Walker & Dunlop Inc.	832,225	53,828
	Banner Corp.	948,643	53,684
	Mack-Cali Realty Corp.	2,317,521	53,604
	Pacific Premier Bancorp Inc.	1,611,479	52,542
	Capitol Federal Financial Inc.	3,776,683	51,854

			Market
			Value
		Shares	(\$000)
	pe Bancorp Inc.	3,465,334	51,495
	dwood Trust Inc. ubman Centers Inc.	3,090,579	51,118 50.711
	obal Net Lease Inc.	1,631,098 2,498,266	50,711
	race Mann Educators Corp.	1,152,355	50,312
	w York Mortgage Trust Inc.	8,069,609	50,274
	wne Bank	1,805,288	50,223
	st Interstate BancSystem Inc. Class A	1,179,299	49,436
	sterly Government Properties Inc.	2,080,210	49,363
	C Properties Inc.	1,102,160	49,344
	ertland Financial USA Inc. GC Partners Inc. Class A	971,669 8,132,512	48,331 48,307
	dder Capital Corp. Class A	2,673,082	48,222
	Itop Holdings Inc.	1,931,254	48,146
	estamerica Bancorporation	708,555	48,019
Se	rvisFirst Bancshares Inc.	1,273,982	48,004
	L Holdings	4,416,646	47,037
	rthwest Bancshares Inc.	2,803,990	46,630
	e Realty Group Trust	2,380,269	46,487
	dfin Corp. IT Bancorp Inc.	2,195,459 1,142,053	46,412 46,322
	isan Partners Asset Management Inc. Class A	1,420,464	45,909
	A Group Inc.	1,239,136	44,981
	padmark Realty Capital Inc.	3,499,902	44,624
Mo	pelis & Co. Class A	1,393,451	44,479
	os Financial Inc.	1,457,887	44,145
	fice Properties Income Trust	1,365,617	43,891
	iti Group Inc.	5,243,715	43,051
	rkshire Hills Bancorp Inc.	1,060,643	42,733 42,506
	earway Energy Inc.	1,292,773 2,128,617	42,466
	tional General Holdings Corp.	1,911,450	42,243
	gle Bancorp Inc.	865,865	42,107
Inc	lustrial Logistics Properties Trust	1,869,761	41,920
	st Commonwealth Financial Corp.	2,838,194	41,182
	hen & Steers Inc.	653,257	40,998
	exander & Baldwin Inc.	1,946,123	40,791
	acoast Banking Corp. of Florida iversal Health Realty Income Trust	1,333,315 342,966	40,759 40,250
	ritex Holdings Inc.	1,380,762	40,222
	nerican Finance Trust Inc.	3,031,013	40,191
На	milton Lane Inc. Class A	670,589	39,967
	por Realty Trust Inc.	2,749,629	39,457
	rk National Corp.	385,117	39,428
	ovident Financial Services Inc.	1,584,760	39,064
	ercury General Corp.	792,967	38,641
	ritage Growth Properties Class A nger Factory Outlet Centers Inc.	962,199 2,616,520	38,565 38,541
	fety Insurance Group Inc.	409,986	37,936
	mmit Hotel Properties Inc.	3,048,687	37,621
	onmouth Real Estate Investment Corp.	2,548,903	36,908
Fla	gstar Bancorp Inc.	952,658	36,439
	eanFirst Financial Corp.	1,392,461	35,563
	lependence Realty Trust Inc.	2,522,945	35,523
	nployers Holdings Inc.	839,167	35,035
	tu Financial Inc. Class A eta Financial Group Inc.	2,188,061 957,557	34,987 34,960
	eta Financiai Group inc. st Busey Corp.	1,270,891	34,960 34,949
	MERISAFE Inc.	527,298	34,817
	y Holding Co.	424,463	34,785
Bro	pokline Bancorp Inc.	2,093,269	34,455
	mpkins Financial Corp.	370,474	33,898
	G Bancorp	1,434,441	33,867
RP	T Realty	2,242,400	33,726

			Markat
			Market Value
		Shares	(\$000)
	Sandy Spring Bancorp Inc.	888,788	33,667
	Kearny Financial Corp.	2,380,799	32,926
	Nelnet Inc. Class A	564,578	32,881
	Southside Bancshares Inc. First Bancorp	884,646 817,374	32,856 32,621
	James River Group Holdings Ltd.	791,198	32,605
	Lakeland Financial Corp.	661,551	32,370
	TPG RE Finance Trust Inc.	1,589,340	32,216
	Piper Jaffray Cos.	397,500	31,776
	Brookfield Property REIT Inc. Class A	1,713,136	31,599
	Colony Credit Real Estate Inc.	2,395,228	31,521
	TFS Financial Corp.	1,596,848	31,426
	BancFirst Corp. American National Insurance Co.	497,964	31,093
	Enterprise Financial Services Corp.	263,996 637,300	31,067 30,724
٨	Waddell & Reed Financial Inc. Class A	1,837,531	30,724
٨	Realogy Holdings Corp.	3,170,952	30,695
*	Green Dot Corp. Class A	1,316,167	30,667
	ARMOUR Residential REIT Inc.	1,708,889	30,538
	Getty Realty Corp.	924,558	30,390
*	LendingClub Corp.	2,381,425	30,054
*	WillScot Corp. Class A	1,602,030	29,622
	Encore Capital Group Inc. TriCo Bancshares	837,105 715,582	29,600 29,203
	National Bank Holdings Corp. Class A	826,194	29,099
	Armada Hoffler Properties Inc.	1,496,377	27,459
	Heritage Financial Corp.	969,183	27,428
	Stewart Information Services Corp.	669,511	27,309
	Meridian Bancorp Inc.	1,355,334	27,229
	NexPoint Residential Trust Inc.	599,487	26,977
*	Granite Point Mortgage Trust Inc.	1,454,702	26,737
	Ambac Financial Group Inc. PennyMac Financial Services Inc.	1,224,637 773,364	26,415 26,325
*	Triumph Bancorp Inc.	683,986	26,005
*	Mr Cooper Group Inc.	2,078,305	26,000
	Boston Private Financial Holdings Inc.	2,113,538	25,426
	Carolina Financial Corp.	585,782	25,323
	Investors Real Estate Trust	349,282	25,323
	Community Healthcare Trust Inc.	580,544	24,882
	Chatham Lodging Trust United Fire Group Inc.	1,351,504 566,755	24,787 24,784
*	Focus Financial Partners Inc. Class A	834,448	24,784
	PJT Partners Inc.	539,897	24,366
	iStar Inc.	1,674,618	24,299
٨	Innovative Industrial Properties Inc.	320,133	24,288
*	Marcus & Millichap Inc.	649,690	24,201
2	Great Ajax Corp.	1,620,172	23,995
	Virtus Investment Partners Inc.	193,247	23,522
	German American Bancorp Inc. TrustCo Bank Corp. NY	657,799 2,689,149	23,431 23,315
	Franklin Street Properties Corp.	2,721,372	23,295
	Banc of California Inc.	1,342,256	23,060
	ConnectOne Bancorp Inc.	894,275	23,001
*	HomeStreet Inc.	668,195	22,719
	Central Pacific Financial Corp.	765,854	22,654
_	Capstead Mortgage Corp.	2,846,248	22,542
*	Enova International Inc.	933,414	22,458
-	Third Point Reinsurance Ltd. Universal Insurance Holdings Inc.	2,132,962 797,889	22,439 22,333
	Stock Yards Bancorp Inc.	542,763	22,333
	Bryn Mawr Bank Corp.	534,627	22,048
	Lakeland Bancorp Inc.	1,266,862	22,018
*	Columbia Financial Inc.	1,276,271	21,620
	Preferred Bank	347,454	20,879

			Market
			Value
		Shares	(\$000)
	Northfield Bancorp Inc.	1,225,035	20,777
	Univest Financial Corp. Urstadt Biddle Properties Inc. Class A	774,963	20,754 20,465
	City Office REIT Inc.	823,862 1,502,609	20,465
	Clearway Energy Inc. Class A	1,048,262	20,043
	Washington Trust Bancorp Inc.	371,507	19,983
*	INTL. FCStone Inc.	405,344	19,793
	Great Southern Bancorp Inc.	310,323	19,650
*	St. Joe Co.	990,382	19,639
*	Allegiance Bancshares Inc. Heritage Commerce Corp.	521,500 1 525 706	19,608
*	MBIA Inc.	1,525,706 2,087,440	19,575 19,413
	Opus Bank	743,873	19,244
	Alexander's Inc.	57,701	19,062
	RMR Group Inc. Class A	414,900	18,936
	New Senior Investment Group Inc.	2,464,865	18,856
*	Palomar Holdings Inc. Class A	372,067	18,786
	Federal Agricultural Mortgage Corp.	224,286	18,728
	Gladstone Commercial Corp. National Western Life Group Inc. Class A	856,169 64,119	18,716 18,651
	Brightsphere Investment Group Inc.	1,819,391	18,594
٨	Washington Prime Group Inc.	5,071,132	18,459
	Community Trust Bancorp Inc.	392,974	18,328
*	Nicolet Bankshares Inc.	247,866	18,305
	WisdomTree Investments Inc.	3,767,054	18,233
	Horizon Bancorp Inc.	956,562	18,175
	Dime Community Bancshares Inc.	866,849	18,108
*	TriState Capital Holdings Inc.	689,005	17,997
	Hanmi Financial Corp. First Foundation Inc.	892,940 1,023,035	17,854 17,801
	FB Financial Corp.	449,503	17,796
	Camden National Corp.	385,338	17,749
	Saul Centers Inc.	333,485	17,601
	Ellington Financial Inc.	959,630	17,590
*	Bancorp Inc.	1,350,948	17,522
	Origin Bancorp Inc.	462,346	17,495
	First Bancshares Inc. UMH Properties Inc.	485,781 1,089,848	17,255 17,143
	First Defiance Financial Corp.	539,964	17,143
	CorEnergy Infrastructure Trust Inc.	379,037	16,947
	Front Yard Residential Corp.	1,372,707	16,939
*	Customers Bancorp Inc.	704,227	16,768
	Midland States Bancorp Inc.	570,478	16,521
	Safehold Inc.	409,540	16,504
	Peoples Bancorp Inc. Retail Value Inc.	471,617 439,531	16,346 16,175
	Preferred Apartment Communities Inc. Class A	1,208,985	16,175
	CatchMark Timber Trust Inc. Class A	1,398,014	16,035
٨	Goosehead Insurance Inc. Class A	374,830	15,893
	Global Medical REIT Inc.	1,170,533	15,486
	Hersha Hospitality Trust Class A	1,061,404	15,443
	Flushing Financial Corp.	710,364	15,347
	RE/MAX Holdings Inc. Class A	398,009	15,319
	CBTX Inc. State Auto Financial Corp.	489,071 488,283	15,220
	Bridge Bancorp Inc.	449,069	15,147 15,057
	Whitestone REIT	1,104,614	15,045
	Mercantile Bank Corp.	411,095	14,993
	FBL Financial Group Inc. Class A	250,022	14,734
	First of Long Island Corp.	580,215	14,552
	Ready Capital Corp.	936,890	14,447
	Peapack Gladstone Financial Corp.	465,585	14,387
*	Watford Holdings Ltd.	571,403 1 299 646	14,376
	Western Asset Mortgage Capital Corp.	1,388,646	14,345

			Market
			Value
		Shares	(\$000)
	KKR Real Estate Finance Trust Inc.	700,032	14,295
	MidWestOne Financial Group Inc. Bank of Marin Bancorp	394,072 316,070	14,277 14,239
	Republic Bancorp Inc.Class A	302.552	14,159
	QCR Holdings Inc.	316,914	13,900
	AG Mortgage Investment Trust Inc.	897,643	13,842
*	World Acceptance Corp.	159,389	13,771
	United Community Financial Corp.	1,157,599	13,498
	First Financial Corp.	292,865	13,390
	Independent Bank Corp.	583,890	13,225
	Arrow Financial Corp. Live Oak Bancshares Inc.	347,712	13,144
*	Equity Bancshares Inc. Class A	687,713 423,247	13,073 13,066
	Orchid Island Capital Inc.	2,224,790	13,015
	First Community Bankshares Inc.	414,894	12,870
	Franklin Financial Network Inc.	371,529	12,755
	HomeTrust Bancshares Inc.	472,620	12,680
	Ares Commercial Real Estate Corp.	766,980	12,149
	People's Utah Bancorp	402,090	12,111
	1st Source Corp.	232,265	12,050
	CNB Financial Corp.	366,289	11,970
*	Atlantic Capital Bancshares Inc.	651,803 624,917	11,961
*	Waterstone Financial Inc. Cowen Inc. Class A	749,220	11,892 11,800
	Financial Institutions Inc.	365,655	11,738
*	Carter Bank & Trust	492,232	11,676
	Jernigan Capital Inc.	608,815	11,653
	Dynex Capital Inc.	687,236	11,642
2	Safeguard Scientifics Inc.	1,047,764	11,504
	Exantas Capital Corp.	969,094	11,445
	Territorial Bancorp Inc.	366,975	11,354
*	Assetmark Financial Holdings Inc.	388,789	11,283
	American National Bankshares Inc.	284,338	11,251
	Cherry Hill Mortgage Investment Corp. Diamond Hill Investment Group Inc.	766,732 78,958	11,187 11,090
	One Liberty Properties Inc.	407,809	11,088
	First Mid Bancshares Inc.	313,354	11,046
	CorePoint Lodging Inc.	995,106	10,628
	Anworth Mortgage Asset Corp.	3,000,488	10,562
*	Hallmark Financial Services Inc.	600,189	10,545
	Byline Bancorp Inc.	537,303	10,515
	Bank First Corp.	149,945	10,498
	Gladstone Land Corp.	803,277 746,361	10,418
	Bridgewater Bancshares Inc. Consolidated-Tomoka Land Co.	170,147	10,285 10,263
	Civista Bancshares Inc.	426,141	10,227
	Old Second Bancorp Inc.	759,012	10,224
*,^	Amerant Bancorp Inc.	465,692	10,147
^	Cambridge Bancorp	124,988	10,018
*	Southern First Bancshares Inc.	235,384	10,001
	Southern Missouri Bancorp Inc.	258,554	9,918
	PCSB Financial Corp.	485,940	9,840
	Bar Harbor Bankshares Farmers National Banc Corp.	387,356	9,835
	SmartFinancial Inc.	601,079	9,810
	Sierra Bancorp	414,374 335,418	9,800 9,767
	Sculptor Capital Management Inc. Class A	440,752	9,741
*	EZCORP Inc. Class A	1,423,009	9,705
*	Forestar Group Inc.	464,800	9,691
	Amalgamated Bank Class A	495,431	9,636
	West Bancorporation Inc.	375,002	9,611
	Bluerock Residential Growth REIT Inc. Class A	767,638	9,250
^	Pennsylvania REIT	1,697,244	9,046
	Spirit of Texas Bancshares Inc.	393,304	9,046

FRP Holdings Inc. 180 748 9.9 180 748 9.9 180 148 180 148 9.9 180 148 180 14		-	Market Value
Entegra Financial Crown 1989, 918 38 38 39 39 39 39 39 3		Shares	(\$000)
Entegra Financial Corp. 295,918 3, 3 Summit Financial Group Inc. 291,125 8, 18 First Bancorp Inc. 291,125 8, 201,125 Greenlight Capital Re Ltd. Class A 847,496 8, 200,285 Guaranty Bancshares Inc. 260,285 8, 3, 38 Northrine Bancorp 430,428 8, 33,148 Northrine Bancorp Inc. 221,302 8, 33,148 Piymouth Industrial RETT Inc. 338,148 8, 92,211 Oppenheimer Holdings Inc. Class A 303,198 3, 303,198 RBB Bancorp 380,201 8, 303,241 HCI Group Inc. 118,763 8, 302,241 Critizens R. Northern Corp. 380,201 8, 303,241 Critizens R. Northern Corp. 380,201 8, 303,241 Victory Capital Holdings Inc. Class A 391,010 8, 303,241 MutualFirst Financial Inc. 206,400 8, 303,241 Bysom Corp. 380,201 8, 303,241 Peoples Financial Services Corp. 380,201 8, 303,241 Western Bysarres Holdings Inc. 275,303 8, 42, 42, 19 <		•	9,003
Summit Financial Group Inc. 329,154 8. First Bancorp Inc. 220,260 8. Greenlight Capital Ret Ltd. Class A 887,496 8. Guranty Bancshares Inc. 260,285 8. Morchants Bancorp 430,428 8. Northrim BanCorp Inc. 221,302 8. Business First Bancshares Inc. 458,102 8. Plymouth Industrial RET Inc. 458,102 8. Oppenheimer Holdings Inc. Class A 181,693 8. HCI Group Inc. 181,763 8. ** Citizens Inc. Class A 1,229,204 8. Central Valley Community Bancorp 390,341 8. Citizens Ro. Class A 1,229,204 8. Central Valley Community Bancorp 290,410 8. Victory Capital Holdings Inc. Class A 1,229,204 8. Victory Capital Holdings Inc. Class A 1,229,204 8. MutualFirst Financial Inc. 206,400 8. Beycome Corp. 290,410 8. Beycome Corp. 161,962 8. <td></td> <td></td> <td>8,967 8,925</td>			8,967 8,925
First Bancorp Inc.	· ·		8,925 8,917
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Greenlight Capital Re Ltd. Class A 847,496 81, durants Bancorp 250,285 81, Merchants Bancorp 430,428 86, Northrim Bancorp inc. 221,302 8, Stances First Bancshares inc. 338,148 86, Northrim Bancorp inc. 221,302 8, Stances First Bancshares inc. 488,102 8, Stances First Bancshares inc. 488,102 8, Stances First Bancshares inc. 488,102 8, Stances First Bancorp 303,318 8, Stances First Bancorp 303,318 8, Stances First Bancorp 302,341 8, Stances First Bancorp 181,763 8, Stances First Bancorp 181,763 8, Stances First Bancorp 380,201 8, Stances First Bancorp 380,201 8, Stances First Bancorp 380,201 8, Stances First Fir			8,632
Guaranty Bancshares Inc. 260,285 8,8 Merchants Bancorp 430,428 8,8 Northrim BanCorp Inc. 338,148 8,8 Business First Bancshares Inc. 338,148 8,8 Plymouth Industrial REIT Inc. 458,102 8,8 Openheimer Holdings Inc. Class A 303,198 8,3 RBB Bancorp 181,763 8,8 HCI Group Inc. 181,763 8,8 Citizens Inc. Class A 1,229,204 8,2 Central Valley Community Bancorp 380,201 8,1 Citizens & Morthem Corp. 290,410 8,1 Victory Capital Holdings Inc. Class A 391,010 8,1 Mutual First Financial Inc. 206,400 8,1 Baycom Corp. 359,031 8,1 Peoples Financial Services Corp. 161,962 8,1 Western Businace Holdings Inc. 210,400 8,1 Hertage Insurance Holdings Inc. 318,933 8,1 Hertage Insurance Holdings Inc. 263,324 8,1 Shore Bancshraes Inc. 464,219 8,1			8,568
Northrim BanCorp Inc. 221,302 8. Business First Bancshares Inc. 338,148 8. Plymouth Industrial REIT Inc. 458,102 8. Oppenheimer Holdings Inc. Class A 303,198 8. RBB Bancorp 392,341 8. HCI Group Inc. 181,763 8. Citizens Inc. Class A 1,229,204 8. Citizens Kanton Corp. 290,410 8. Victory Capital Holdings Inc. Class A 311,010 8. MutualFirst Financial Inc. 206,400 8. MutualFirst Financial Inc. 206,400 8. MutualFirst Financial Inc. 206,400 8. Mestwood Holdings Group Inc. 275,303 8. Peoples Financial Services Corp. 161,962 8. Kestwood Holdings Group Inc. 215,303 8. Heritage Insurance Holdings Inc. 464,219 8. Capital City Bank Group Inc. 283,224 8. RBR Group Inc. Class A 486,090 7. Western New England Bancorp Inc. 283,224 8. RBR Group Inc. Class A 486,090 7. Regional Management Corp. 258,969 7. Regional Management Corp. 258,969 7. Regional Management Corp. 258,969 7. National Bankshares Inc. 171,243 7. Tojon Rancio Co. 577,200 7. United Insurance Holdings Corp. 598,408 7. PICO Holdings Inc. 444,971 7. Tojon Banch Co. 577,700 7. Bank-Financial Corp. 154,227 7. United Insurance Holdings Corp. 154,227 7. Metropolita Bank Holding Inc. 444,971 7. RBR Group Inc. Bank Holding Corp. 154,227 7. Metropolita Bank Holding Corp. 154,227 7. Capstar Financial Holdings Inc. 444,971 7. BRR Group Inc. Bank Holding Corp. 154,227 7. Matrin Business Services Corp. 158,263 7. First Bank PC General Report Inc. 374,001 7. BRR Group Inc. Bank Holding Corp. 374,001 7. Harbor One Bancorp Inc. 383,003 7. Harbor One Bancorp Inc. 383,003			8,558
Business First Baneshares Inc. 338,148 8, Plymouth Industrial REIT Inc. 458,102 8, Oppenheimer Holdings Inc. Class A 303,198 8, RBB Bancop 392,341 8, RBB Bancop 187,63 8, RBB Bancop 187,63 8, RBB Bancop 187,63 8, RBB Bancop 1,229,204 81, CGroup Inc. Class A 8, CItzens Inc. Class A 1,229,204 81, CGroup Inc. Class A 8, Contral Valley Community Bancorp 380,201 8, Captal Holdings Inc. Class A 391,010 8, Captal Reinsurance Inc. 206,400 8, Captal Reinsurance Inc. 206,400 8, Captal Reinsurance Inc. 275,303 8, Reinsurance Inc. 464,219 8, Captal City Bank Assessing Reinsurance Inc. 464,219 8, Captal City Bank Assessing Reinsurance Inc. 464,219 8, Captal City Bank Assessing Reinsurance Inc. 463,224 8, Captal City Bank Assessing Reinsurance Inc. 464,219 8, Captal City Bank Assessing Reinsurance Inc. 462,219 8, Captal City Bank Assessing Reinsurance Reinsur	Merchants Bancorp	430,428	8,484
Plymouth Industrial REIT Inc. 458,102 8,	Northrim BanCorp Inc.	221,302	8,476
Oppenheimer Holdings Inc. Class A 303,198 3,92,341 8,8 RBB Bancorp 392,341 8,8 HCI Group Inc. 181,763 8, Citizens Inc. Class A 1,229,204 8, Central Valley Community Bancorp 380,201 8, Citizens & Northern Corp. 290,410 8, Victory Capital Holdings Inc. Class A 391,010 8, MutualFirst Financial Inc. 206,400 8, Baycorn Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Hentage Insurance Holdings Inc. 611,888 8, Shore Banchares Inc. 611,888 8, Shore Banchares Inc. 464,219 8) Western New England Bancorp Inc. 829,917 7, F S Bancorp Inc. 829,917 7, F S Bancorp Inc. 829,917 7, F S Bancorp Inc. 876,108 7, Braemar Hotels & Resorts Inc. 879,108 7,	Business First Bancshares Inc.	338,148	8,430
RBB Bancorp 392,341 8. HCI Group Inc. 181,763 8. Citzens Inc. Class A 1,229,204 8. Citzens Inc. Class A 1,229,204 8. Victory Capital Holdings Inc. Class A 391,010 8. MutualFirst Financial Inc. 206,400 8. Baycom Corp. 359,031 8. Peoples Financial Services Corp. 161,962 8. Westwood Holdings Group Inc. 275,303 8. Hentage Insurance Holdings Inc. 611,888 8. Shore Bancshares Inc. 611,888 8. Capital City Bank Group Inc. 263,324 81 BRP Group Inc. Class A 486,009 7. Western New England Bancorp Inc. 829,917 7. FS Bancorp Inc. 829,917 7. Braemar Hotels & Resorts Inc. 367,108 7. Wostern New England Bancorp Inc. 829,917 7. F Bancorp Inc. 376,108 7. Braemar Hotels & Resorts Inc. 376,108 7. Total T	Plymouth Industrial REIT Inc.	458,102	8,424
HCI Group Inc.		•	8,332
Citzians Inc. Class A 1,229,204 8, Central Valley Community Bancorp 380,201 8, Citzians & Northern Corp. 290,410 8, Victory Capital Holdings Inc. Class A 391,010 8, Mutualfirst Financial Inc. 206,400 8, Baycom Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Capital City Bank Group Inc. 263,324 81 BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, FS Bancorp Inc. 876,108 7, FS Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, FS Bancarp Inc. 97,000 7, Regional Management Corp.<			8,306
Central Valley Community Bancorp 380,201 8. Citizens & Northern Corp. 290,410 8. Victory Capital Holdings Inc. Class A 391,010 8. Baycom Corp. 206,400 8. Baycom Corp. 161,962 8. Peoples Financial Services Corp. 161,962 8. Westwood Holdings Group Inc. 275,303 8. Heritage Insurance Holdings Inc. 611,888 8. Shore Bancshares Inc. 611,888 8. Capital City Bank Group Inc. 263,324 81 Capital City Bank Group Inc. 263,324 81 BRP Group Inc. Class A 498,090 7. Western New England Bancorp Inc. 829,917 7. FS Bancorp Inc. 876,108 7. Bregional Management Corp. 258,969 7. MVB Financial Corp. 311,990 7. Nt Jonal Bankshraes Inc. 171,243 7. Tejon Ranch Co. 475,998 7. Nutrien Insurance Holdings Corp. 598,408 7.			8,297
Citizens & Northern Corp. 290,410 8, Victory Capital Holdings Inc. Class A 391,010 8, MutualFirst Financial Inc. 206,400 8, Baycom Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Baneshares Inc. 464,219 8, Capital City Bank Group Inc. 283,324 8, BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, FS Bancorp Inc. 876,108 7, Regional Management Corp. 876,108 7, Regional Management Corp. 258,969 7, NUB Financial Corp. 311,990 7, National Eankshares Inc. 171,243 7, Tejon Ranch Co. 87,008 7, Bank Financial Corp. 57,209 7, United Insuran			8,297
Victory Capital Holdings Inc. Class A 391,010 8, MutualFirst Financial Inc. 206,400 8, Baycom Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Capital Cify Bank Group Inc. 263,324 8, BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, FS Bancorp Inc. 876,108 7, Breemar Hotels & Resorts Inc. 876,108 7, Regional Management Corp. 268,969 7, MVB Financial Corp. 311,990 7, NVB Financial Corp. 311,990 7, VB Pico Holdings Inc. 475,908 7, BankFinancial Corp. 577,720 7, United Insurance Holdings Corp. 598,408 7, PI			8,239
MutualFirst Financial Inc. 206,400 8, Baycom Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Capital City Bank Group Inc. 263,324 81 BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 829,917 7, F Bancorp Inc. 876,108 7, F Regional Management Corp. 259,969 7, MVB Financial Corp. 311,990 7, National Bankshares Inc. 171,243 7, T ejon Ranch Co. 475,908 7, BankFinancial Corp. 577,720 7, United Insurance Holdings Corp. 598,408 7, PICO Holdings Inc. 67,021 7, Southern National Bancorp of Virginia Inc. 460,226 7, S Outhern National Bancorp of Virginia Inc. 460,226 7,			8,204
** Baycom Corp. 359,031 8, Peoples Financial Services Corp. 161,962 8, Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Capital City Bank Group Inc. 263,324 8, **BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 376,108 7, ** Regional Management Corp. 376,108 7, ** Regional Management Corp. 376,108 7, ** National Bankshares Inc. 311,990 7, ** National Bankshares Inc. 171,243 7, ** Tejon Ranch Co. 475,908 7, ** BankFinancial Corp. 577,720 7, ** United Insurance Holdings Corp. 589,408 7, ** PICO Holdings Inc. 677,021 7, ** Southern National Bancorp of Virginia Inc. 460,226 7, ** So One Bancorp 31,060 7, ** Farmers & Merchants Bancorp Inc. 35,603 7, <td></td> <td>•</td> <td>8,199</td>		•	8,199
Peoples Financial Services Corp.		•	8,188
Westwood Holdings Group Inc. 275,303 8, Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Capital City Bank Group Inc. 263,324 8, BRP Group Inc. Class A 498,090 7, Western New England Bancorp Inc. 829,917 7, FS Bancorp Inc. 125,271 7, Braemar Hotels & Resorts Inc. 876,108 7, Braemar Hotels & Resorts Inc. 37, 96 9, Regional Management Corp. 258,969 7, MVB Financial Corp. 311,990 7, National Bankshares Inc. 171,243 7, Tejon Ranch Co. 475,908 7, BankFinancial Corp. 577,720 7, United Insurance Holdings Corp. 577,720 7, PICO Holdings Inc. 677,021 7, Southern National Bancorp of Virginia Inc. 35,603 7, SB One Bancorp 301,060 7, Hingham Institution for Savings 35,603 7, Farmers & Merchants Bancorp Inc. 444,971 7,			8,164
Heritage Insurance Holdings Inc. 611,888 8, Shore Bancshares Inc. 464,219 8, Shore Bancshares Inc. 263,324 8, 464,219 8, 17, 263,324 8, 263,324		•	8,155
Shore Bancshares Inc. 464,219 8,1 Capital City Bank Group Inc. 263,324 8,1 BRP Group Inc. Class A 498,090 7,3 Western New England Bancorp Inc. 829,917 7,5 FS Bancorp Inc. 125,271 7,3 Braemar Hotels & Resorts Inc. 876,108 7,3 Regional Management Corp. 258,969 7,7 MVB Financial Corp. 311,990 7,7 National Bankshares Inc. 171,243 7,1 Tejon Ranch Co. 475,908 7,9 BankFinancial Corp. 577,720 7,5 United Insurance Holdings Corp. 598,408 7,2 PICO Holdings Inc. 677,021 7,3 Suthern National Bancorp of Virginia Inc. 460,226 7,3 SB One Bancorp 301,060 7,3 Hingham Institution for Savings 35,603 7,4 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 436,263 7,5 BRT Apartments Corp. 332,744 7,5 <td></td> <td></td> <td>8,154</td>			8,154
Capital City Bank Group Inc. 263,324 8,1 BRP Group Inc. Class A 498,090 7,3 Western New England Bancorp Inc. 829,917 7,5 FS Bancorp Inc. 125,271 7,3 Braemar Hotels & Resorts Inc. 876,108 7,3 Regional Management Corp. 258,969 7,7 MVB Financial Corp. 311,990 7,7 National Bankshares Inc. 171,243 7,1 Tejon Ranch Co. 475,908 7,3 BankFinancial Corp. 598,408 7,2 United Insurance Holdings Corp. 598,408 7,2 PICO Holdings Inc. 677,021 7,2 Southern National Bancorp of Virginia Inc. 460,226 7,3 SB One Bancorp 301,060 7,4 Hingham Institution for Savings 35,603 7,7 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 434,371 7,7 BRT Apartments Corp. 434,371 7,7 Howard Bancorp Inc. 436,263 7,7 <td></td> <td>•</td> <td>8,108 8,059</td>		•	8,108 8,059
BRP Group Inc. Class A 498,090 7.3 Western New England Bancorp Inc. 829,917 7.5 FS Bancorp Inc. 125,271 7.9 Braemar Hotels & Resorts Inc. 876,108 7.4 Regional Management Corp. 258,969 7.7 MVB Financial Corp. 311,990 7.7 National Bankshares Inc. 171,243 7.4 Tejon Ranch Co. 475,908 7.9 BankFinancial Corp. 577,720 7.3 United Insurance Holdings Corp. 598,408 7.9 PICO Holdings Inc. 677,021 7.9 Southern National Bancorp of Virginia Inc. 677,021 7.3 SB One Bancorp 301,060 7.9 Hingham Institution for Savings 35,603 7.6 Farmers & Merchants Bancorp Inc. 247,557 7.6 Metropolitan Bank Holding Corp. 154,227 7.6 Capstar Financial Holdings Inc. 444,971 7.6 BRT Apartments Corp. 433,371 7. Howard Bancorp Inc. 436,263 7.			8,031
Western New England Bancorp Inc. 829,917 7,5 FS Bancorp Inc. 125,271 7,5 Braemar Hotels & Resorts Inc. 876,108 7,3 Regional Management Corp. 258,969 7,7 MVB Financial Corp. 311,990 7,7 National Bankshares Inc. 171,1243 7,9 Tejon Ranch Co. 475,908 7,8 BankFinancial Corp. 577,720 7,9 United Insurance Holdings Corp. 598,408 7,3 PICO Holdings Inc. 677,021 7,1 Suthern National Bancorp of Virginia Inc. 460,226 7,2 SB One Bancorp 301,060 7,3 Hingham Institution for Savings 35,603 7,4 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 444,971 7,5 BRT Apartments Corp. 434,371 7,5 Howard Bancorp Inc. 436,263 7,5 Marlin Business Services Corp. 374,001 7,5 First Bank 659,837 7,5		•	7,994
FS Bancorp Inc. 125,271 7,8 Braemar Hotels & Resorts Inc. 876,108 7,3 Regional Management Corp. 258,969 7,7 MVB Financial Corp. 311,990 7,7 National Bankshares Inc. 171,243 7,9 Tejon Ranch Co. 475,908 7,4 BankFinancial Corp. 577,720 7,2 United Insurance Holdings Corp. 598,408 7,3 PICO Holdings Inc. 677,021 7,2 Southern National Bancorp of Virginia Inc. 677,021 7,2 SB One Bancorp 301,060 7,3 Hingham Institution for Savings 35,603 7,4 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holdings Corp. 247,557 7,4 Capstar Financial Holdings Inc. 444,971 7,4 BRT Apartments Corp. 434,371 7,5 Howerd Bancorp Inc. 332,744 7,5 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,5 PCB Bancorp 419,108 7,5 LCNB Corp			7,992
Braemar Hotels & Resorts Inc. 876,108 7,8 Regional Management Corp. 258,969 7,7 MVB Financial Corp. 311,990 7,7 National Bankshares Inc. 171,243 7,9 Tejon Ranch Co. 475,908 7,8 BankFinancial Corp. 577,720 7,9 United Insurance Holdings Corp. 598,408 7,7 PICO Holdings Inc. 677,021 7,9 Southern National Bancorp of Virginia Inc. 460,226 7,8 SB One Bancorp 301,060 7,1 Hingham Institution for Savings 35,603 7,7 Farmers & Merchants Bancorp Inc. 247,557 7,7 Metropolitan Bank Holding Corp. 154,227 7,8 Capstar Financial Holdings Inc. 444,971 7,9 BRT Apartments Corp. 436,263 7,9 Howard Bancorp Inc. 436,263 7,9 Howard Bancorp Inc. 332,744 7,9 First Bank 659,837 7,9 PCB Bancorp 419,108 7,2 LONB Corp. 374,001 7,5 HarborOne Bancorp Inc. <td></td> <td></td> <td>7,991</td>			7,991
** Regional Management Corp. 258,969 7, MVB Financial Corp. National Bankshares Inc. 311,990 7, National Bankshares Inc. ** Tejon Ranch Co. 475,908 7, Var. BankFinancial Corp. 577,720 7, Var. United Insurance Holdings Corp. 598,408 7, Var. ** PICO Holdings Inc. 677,021 7, Var. ** Southern National Bancorp of Virginia Inc. 460,226 7, Var. ** SB One Bancorp 301,060 7, Var. ** Hingham Institution for Savings 35,603 7, Var. ** Metropolitan Bank Holding Corp. 247,557 7, Var. ** Metropolitan Bank Holding Corp. 154,227 7, Var. ** Apartments Corp. 444,971 7, Var. ** Howard Bancorp Inc. 436,263 7, Var. ** Howard Bancorp Inc. 436,263 7, Var. ** First Bank 659,837 7, Var. ** Feasurements Corp. 374,001 7, Var. <			7,824
MVB Financial Corp. 311,990 7, National Bankshares Inc. 171,243 7,0 Tejon Ranch Co. 475,908 7,1 BankFinancial Corp. 577,720 7,3 United Insurance Holdings Corp. 598,408 7,3 PICO Holdings Inc. 677,021 7,8 Southern National Bancorp of Virginia Inc. 677,021 7,8 Southern National Bancorp of Virginia Inc. 460,226 7,8 SB One Bancorp 301,060 7,8 Hingham Institution for Savings 35,603 7,8 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitian Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 444,971 7,5 BRT Apartments Corp. 434,371 7,5 Howard Bancorp Inc. 436,263 7,5 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,5 PCB Bancorp 419,108 7,5 LCNB Corp. 374,001 7,7 HarborOne Bancorp Inc. 653,951 7,7 BBX C			7,777
National Bankshares Inc. 171,243 7,1 * Tejon Ranch Co. 475,908 7,8 BankFinancial Corp. 577,720 7,3 United Insurance Holdings Corp. 598,408 7,3 * PICO Holdings Inc. 677,021 7,3 Southern National Bancorp of Virginia Inc. 460,226 7,3 SB One Bancorp 301,060 7,8 Hingham Institution for Savings 35,603 7,4 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 444,971 7,4 BRT Apartments Corp. 436,263 7,5 Howard Bancorp Inc. 436,263 7,5 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,2 HarborOne Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Ban		•	7,775
Tejon Ranch Co. 475,908 7,6 BankFinancial Corp. 577,720 7,8 United Insurance Holdings Corp. 598,408 7,8 PICO Holdings Inc. 677,021 7,9 Southern National Bancorp of Virginia Inc. 460,226 7,9 SB One Bancorp 301,060 7,8 Hingham Institution for Savings 35,603 7,4 Farmers & Merchants Bancorp Inc. 247,557 7,4 Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 444,971 7,6 BRT Apartments Corp. 436,263 7,3 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,6 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,7 HarborOne Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7			7,694
United Insurance Holdings Corp. 598,408 7,4 PICO Holdings Inc. 677,021 7,4 Southern National Bancorp of Virginia Inc. 460,226 7,4 SB One Bancorp 301,060 7,4 Hingham Institution for Savings 35,603 7,7 Farmers & Merchants Bancorp Inc. 247,557 7,7 Capstar Financial Holding Corp. 154,227 7,6 Capstar Financial Holdings Inc. 444,971 7,6 BRT Apartments Corp. 436,263 7,7 Howard Bancorp Inc. 436,263 7,7 First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,6 HarborOne Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7			7,605
PICO Holdings Inc. 677,021 7, Southern National Bancorp of Virginia Inc. 460,226 7, SB One Bancorp 301,060 7, Hingham Institution for Savings 35,603 7, Farmers & Merchants Bancorp Inc. 247,557 7, Metropolitan Bank Holding Corp. 154,227 7, Capstar Financial Holdings Inc. 444,971 7, BRT Apartments Corp. 434,371 7, Howard Bancorp Inc. 436,263 7, Marlin Business Services Corp. 332,744 7, First Bank 659,837 7, PCB Bancorp 419,108 7, LCNB Corp. 374,001 7, HarborOne Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,		577,720	7,557
Southern National Bancorp of Virginia Inc. 460,226 7, SB One Bancorp 301,060 7, Hingham Institution for Savings 35,603 7, Farmers & Merchants Bancorp Inc. 247,557 7, Metropolitan Bank Holding Corp. 154,227 7, Capstar Financial Holdings Inc. 444,971 7, BRT Apartments Corp. 436,263 7, Marlin Business Services Corp. 332,744 7, First Bank 659,837 7, PCB Bancorp 419,108 7, LCNB Corp. 374,001 7, HarborOne Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,	United Insurance Holdings Corp.	598,408	7,546
SB One Bancorp 301,060 7,4 Hingham Institution for Savings 35,603 7,6 Farmers & Merchants Bancorp Inc. 247,557 7,6 Metropolitan Bank Holding Corp. 154,227 7,6 Capstar Financial Holdings Inc. 444,971 7,7 BRT Apartments Corp. 434,371 7,7 Howard Bancorp Inc. 436,263 7,7 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,6 Harbor One Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7		677,021	7,528
Hingham Institution for Savings 35,603 7,7 Farmers & Merchants Bancorp Inc. 247,557 7,7 Metropolitan Bank Holding Corp. 154,227 7,7 Capstar Financial Holdings Inc. 444,971 7,8 BRT Apartments Corp. 436,263 7,7 Howard Bancorp Inc. 436,263 7,8 Marlin Business Services Corp. 332,744 7,8 First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,8 Harbor One Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7			7,525
Farmers & Merchants Bancorp Inc. 247,557 7, Metropolitan Bank Holding Corp. 154,227 7, Capstar Financial Holdings Inc. 444,971 7, BRT Apartments Corp. 436,263 7, Howard Bancorp Inc. 436,263 7, Marlin Business Services Corp. 332,744 7, First Bank 659,837 7, PCB Bancorp 419,108 7, LCNB Corp. 374,001 7, Harbor One Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,			7,502
Metropolitan Bank Holding Corp. 154,227 7,4 Capstar Financial Holdings Inc. 444,971 7,5 BRT Apartments Corp. 434,371 7,5 Howard Bancorp Inc. 436,263 7,5 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,5 PCB Bancorp 419,108 7,5 LCNB Corp. 374,001 7,5 HarborOne Bancorp Inc. 653,951 7,6 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7			7,484
Capstar Financial Holdings Inc. 444,971 7,7 BRT Apartments Corp. 434,371 7,7 Howard Bancorp Inc. 436,263 7,3 Marlin Business Services Corp. 332,744 7,5 First Bank 659,837 7,5 PCB Bancorp 419,108 7,5 LCNB Corp. 374,001 7,5 HarborOne Bancorp Inc. 653,951 7,5 BBX Capital Corp. Class A 1,504,034 7,5 Macatawa Bank Corp. 639,766 7,5 First Choice Bancorp 263,992 7,5			7,464
BRT Apartments Corp. 434,371 7, Howard Bancorp Inc. 436,263 7, Marlin Business Services Corp. 332,744 7, First Bank 659,837 7, PCB Bancorp 419,108 7, LCNB Corp. 374,001 7, HarborOne Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,	9 1		7,438
Howard Bancorp Inc. 436,263 7,3 Marlin Business Services Corp. 332,744 7,3 First Bank 659,837 7,3 PCB Bancorp 419,108 7,3 LCNB Corp. 374,001 7,3 HarborOne Bancorp Inc. 653,951 7,3 BBX Capital Corp. Class A 1,504,034 7,3 Macatawa Bank Corp. 639,766 7,5 First Choice Bancorp 263,992 7,5	· · · · · · · · · · · · · · · · · · ·	•	7,409
Marlin Business Services Corp. 332,744 7,7 First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,7 HarborOne Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7		434,371	7,371
First Bank 659,837 7,7 PCB Bancorp 419,108 7,7 LCNB Corp. 374,001 7,7 HarborOne Bancorp Inc. 653,951 7,7 BBX Capital Corp. Class A 1,504,034 7,7 Macatawa Bank Corp. 639,766 7,7 First Choice Bancorp 263,992 7,7	•		7,364
PCB Bancorp 419,108 7,2 LCNB Corp. 374,001 7,2 HarborOne Bancorp Inc. 653,951 7,3 BBX Capital Corp. Class A 1,504,034 7,3 Macatawa Bank Corp. 639,766 7,3 First Choice Bancorp 263,992 7,3	•		7,314
LCNB Corp. 374,001 7, HarborOne Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,			7,291 7,242
* HarborOne Bancorp Inc. 653,951 7, BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,			7,242
BBX Capital Corp. Class A 1,504,034 7, Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,			7,218
Macatawa Bank Corp. 639,766 7, First Choice Bancorp 263,992 7,			7,137
First Choice Bancorp 263,992 7,			7,174
	· ·	•	7,121
, with order to option of the first that the first	Ashford Hospitality Trust Inc.	2,537,647	7,080
			6,995
· · · · · · · · · · · · · · · · · · ·	· ·	•	6,977
			6,963
	·		6,932
	Investar Holding Corp.		6,930
		399,961	6,831
	First Business Financial Services Inc.	•	6,768
	· ·		6,760
			6,703
Parke Bancorp Inc. 260,806 6,6	Parke Bancorp Inc.	260,806	6,622

			Market Value
		Shares	(\$000)
	First Northwest Bancorp ACNB Corp.	365,157 173,596	6,620 6,565
	Century Bancorp Inc. Class A	72,167	6,492
*	Stratus Properties Inc.	207,296	6,422
*	Richmond Mutual Bancorporation Inc.	401,313	6,405
*	International Money Express Inc.	531,850	6,403
*,^	eXp World Holdings Inc.	561,770	6,365
	Global Indemnity Ltd.	214,746	6,363
	Penns Woods Bancorp Inc.	178,812	6,359
	Bankwell Financial Group Inc.	219,929	6,343
	Investors Title Co. Orrstown Financial Services Inc.	39,001 273,079	6,209
*,^	Health Insurance Innovations Inc. Class A	272,978 319,738	6,175 6,168
,	Ellington Residential Mortgage REIT	568,308	6,166
	Codorus Valley Bancorp Inc.	265,725	6,120
	Arlington Asset Investment Corp. Class A	1,078,978	6,010
	Reliant Bancorp Inc.	269,772	6,000
^	Farmland Partners Inc.	864,500	5,861
	Timberland Bancorp Inc.	190,063	5,652
	Clipper Realty Inc.	530,809	5,627
	Protective Insurance Corp. Class B	349,174	5,618
	Bank of Princeton	177,561	5,591
	Tiptree Inc.	673,979	5,486
	Premier Financial Bancorp Inc. ESSA Bancorp Inc.	296,554 315,730	5,379 5,352
	Bank of Commerce Holdings	461,783	5,352 5,343
	Riverview Bancorp Inc.	650,394	5,340
	BCB Bancorp Inc.	386,500	5,330
	Norwood Financial Corp.	135,538	5,272
	Independence Holding Co.	123,889	5,213
*	Republic First Bancorp Inc.	1,233,160	5,155
	Community Bankers Trust Corp.	579,381	5,145
	Northeast Bank	228,936	5,034
*	Malvern Bancorp Inc.	217,730	5,027
	Evans Bancorp Inc.	124,332	4,986
	Silvercrest Asset Management Group Inc. Class A	395,459	4,975
*	First United Corp. Randolph Bancorp Inc.	201,916 272,216	4,864 4,805
*	HBT Financial Inc.	252,396	4,793
^	CBL & Associates Properties Inc.	4,481,209	4,795
*	Curo Group Holdings Corp.	385,794	4,699
	Unity Bancorp Inc.	208,089	4,697
	FedNat Holding Co.	281,905	4,688
	C&F Financial Corp.	83,746	4,634
*	NI Holdings Inc.	268,861	4,624
	Community Financial Corp.	129,569	4,609
	Chemung Financial Corp.	105,532	4,485
*	Rafael Holdings Inc. Class B	247,734	4,420
	South Plains Financial Inc.	209,866	4,380
	Alerus Financial Corp.	191,324	4,372
*	Provident Bancorp Inc. Carolina Trust Bancshares Inc.	344,790 328,780	4,293 4,291
*	Esquire Financial Holdings Inc.	163,283	4,257
	Crawford & Co. Class A	367,705	4,218
	Mackinac Financial Corp.	237,842	4,153
*	ProSight Global Inc.	254,996	4,113
*	Medallion Financial Corp.	552,377	4,016
	1st Constitution Bancorp	179,404	3,970
	First Community Corp.	183,681	3,969
*	Pacific Mercantile Bancorp	482,797	3,920
	FNCB Bancorp Inc.	459,377	3,882
	Donegal Group Inc. Class A	257,647	3,818
*	Provident Financial Holdings Inc.	173,786	3,806
*	Meridian Corp.	187,838	3,792

			Market
		Shares	Value (\$000)
_	OP Bancorp	364,245	3,777
*	Pioneer Bancorp Inc.	244,745	3,747
	Two River Bancorp	166,206	3,723
	Middlefield Banc Corp.	140,636	3,669
	Peoples Bancorp of North Carolina Inc.	111,619	3,667
	Pzena Investment Management Inc. Class A	422,399	3,641
^	Fidelity D&D Bancorp Inc.	58,152	3,618
*	Ocwen Financial Corp.	2,627,421	3,600
	Crawford & Co. Class B	350,392	3,556
	Prudential Bancorp Inc.	191,884	3,556
*	PDL Community Bancorp	240,811	3,540
*	Elevate Credit Inc.	789,118	3,512
*	Ohio Valley Banc Corp. MMA Capital Holdings Inc.	87,025 108,138	3,448 3,439
*	Aspen Group Inc.	429,005	3,439
	Hawthorn Bancshares Inc.	134,425	3,428
	United Security Bancshares	314,496	3,375
*	MainStreet Bancshares Inc.	146,516	3,370
	First Financial Northwest Inc.	220,880	3,300
^	Federal Agricultural Mortgage Corp. Class A	43,002	3,203
	Mid Penn Bancorp Inc.	107,737	3,103
	Standard AVB Financial Corp.	103,063	3,089
	Luther Burbank Corp.	267,578	3,085
	First Guaranty Bancshares Inc.	139,318	3,033
	First Savings Financial Group Inc.	43,991	2,952
*	Coastal Financial Corp.	178,029	2,932
	Sotherly Hotels Inc.	425,491	2,885
	GAMCO Investors Inc. Class A	146,252	2,850
	Sterling Bancorp Inc.	348,264	2,821
	Level One Bancorp Inc. SB Financial Group Inc.	111,633 141,145	2,809 2,779
	CB Financial Services Inc.	89,151	2,779
*	Capital Bancorp Inc.	179,330	2,670
	Bank7 Corp.	137,640	2,610
	Postal Realty Trust Inc. Class A	152,391	2,583
	Old Point Financial Corp.	92,255	2,536
	Griffin Industrial Realty Inc.	63,382	2,507
	Condor Hospitality Trust Inc.	226,675	2,502
^	Associated Capital Group Inc. Class A	63,741	2,499
	Greene County Bancorp Inc.	85,272	2,455
*	Maui Land & Pineapple Co. Inc.	210,022	2,363
*	Atlanticus Holdings Corp.	262,005	2,361
*,^	GWG Holdings Inc.	234,099	2,299
*,^	Oak Valley Bancorp Siebert Financial Corp.	118,071 263,926	2,298 2,283
,	Plumas Bancorp	86,202	2,274
*	CrossFirst Bankshares Inc.	157,646	2,273
	Hunt Cos. Finance Trust Inc.	683,836	2,209
2	Spirit MTA REIT	2,854,330	2,191
*	First Western Financial Inc.	132,755	2,186
^	Auburn National Bancorporation Inc.	40,857	2,165
*	MoneyGram International Inc.	1,025,165	2,153
	Union Bankshares Inc.	59,239	2,148
*	Altisource Portfolio Solutions SA	109,207	2,111
*	Silvergate Capital Corp. Class A	129,856	2,066
٨	GAIN Capital Holdings Inc.	461,584	1,823
	AmeriServ Financial Inc.	418,188	1,756
	Franklin Financial Services Corp.	42,348	1,638
	Sachem Capital Corp.	369,704 173,303	1,605
	Severn Bancorp Inc.	172,293	1,604
	Eagle Bancorp Montana Inc. Kingstone Cos. Inc.	74,805 198,941	1,600 1,542
	Global Self Storage Inc.	354,937	1,542
	Manhattan Bridge Capital Inc.	238,332	1,516
	mannattan Dhago Capital Inc.	200,002	1,510

			Market Value
		Shares	(\$000)
	Blue Capital Reinsurance Holdings Ltd.	217,080	1,489
	F Bancorp Inc.	61,247	1,410
	Oportun Financial Corp. Consumer Portfolio Services Inc.	58,828	1,400
	Hennessy Advisors Inc.	401,461 131,059	1,353 1,321
	Jrstadt Biddle Properties Inc.	65,711	1,306
	mpac Mortgage Holdings Inc.	244,016	1,284
	Rekor Systems Inc.	312,786	1,195
	Franscontinental Realty Investors Inc.	29,823	1,189
	Sound Financial Bancorp Inc.	32,178	1,158
* F	Rhinebeck Bancorp Inc.	94,826	1,072
	Manning & Napier Inc.	591,269	1,029
	Nicholas Financial Inc.	124,481	1,026
	imestone Bancorp Inc.	56,772	1,022
	Ashford Inc.	42,457	1,002
	Bank of South Carolina Corp.	52,968	995
	Security National Financial Corp. Class A	170,038	995
	Central Federal Corp.	69,550	970
	Avalon GloboCare Corp. Maiden Holdings Ltd.	470,565 1,193,606	908 895
	Maiden Holdings Etd. Elmira Savings Bank	52,075	786
	FBW Inc.	57,872	668
	Riot Blockchain Inc.	57,872	644
	CBM Bancorp Inc.	37,145	524
	County Bancorp Inc.	19,769	507
	Winthrop Realty Trust	562,609	486
	Bank of the James Financial Group Inc.	31,555	482
* E	Broadway Financial Corp.	291,631	449
* H	HV Bancorp Inc.	26,133	444
	Community First Bancshares Inc.	38,693	443
	Ottawa Bancorp Inc.	27,877	386
	MSB Financial Corp.	19,644	354
	United Bancorp Inc.	23,427	335
	Power REIT	29,103	262
	National Holdings Corp.	96,260	245
	nterGroup Corp. FlexShopper Inc.	6,286 86,281	234 218
	Nheeler REIT Inc.	128,812	210
	JS Global Investors Inc. Class A	143,575	207
	Altisource Asset Management Corp.	15,364	190
	1347 Property Insurance Holdings Inc.	34,257	189
	MVS Financial Corp.	11,419	188
N	Medley Management Inc. Class A	55,034	163
*	ncome Opportunity Realty Investors Inc.	12,050	159
	andmark Bancorp Inc.	5,815	146
	Riverview Financial Corp.	10,060	126
	JW Mays Inc.	4,010	121
	Asta Funding Inc.	11,264	116
	Mid-Southern Bancorp Inc.	6,447	87
	Frinity Place Holdings Inc. Medalist Diversified REIT Inc.	27,417	83
	Guaranty Federal Bancshares Inc.	22,234 3,011	77 76
	SB Bancorp Inc.	3,139	54
	Oconee Federal Financial Corp.	1,919	50
	Lake Shore Bancorp Inc.	2,800	43
	Home Federal Bancorp Inc.	601	21
	CPI Card Group Inc.	23,067	21
	Protective Insurance Corp. Class A	1,100	17
Т	Fremont Mortgage Trust	2,458	12
	National Holdings Corp. Warrants Exp. 01/18/2022	92,151	9
	Envision Solar International Inc.	1,800	8
* \	/illage Bank and Trust Financial Corp.	200	7
	Patriot National Bancorp Inc.	100	1
* (Conifer Holdings Inc.	300	1

		Marke Valu
	Shares	(\$00
^.5 Ditech Holding Corp. Warrants Exp. 02/09/2028	34,201 _	474 007 70
lealth Care (13.0%)		174,087,72
Johnson & Johnson	74,147,917	10,815,95
UnitedHealth Group Inc.	26,689,357	7,846,13
Merck & Co. Inc.	71,739,055	6,524,66
Pfizer Inc.	155,931,076	6,109,38
Abbott Laboratories	49,821,309	4,327,47
Medtronic plc	37,757,947	4,283,63
Bristol-Myers Squibb Co.	65,941,862	4,232,80
Amgen Inc.	16,741,329	4,035,83
AbbVie Inc.	41,653,636	3,688,0
Thermo Fisher Scientific Inc.	11,297,406	3,670,18
Eli Lilly & Co.	24,355,427	3,201,03
Gilead Sciences Inc.	35,654,732	2,316,8
Anthem Inc.	7,144,478	2,157,84
Cigna Corp.	10,522,464	2,151,73
Becton Dickinson and Co.	7,620,489	2,072,54
Intuitive Surgical Inc.	3,255,802	1,924,60
Stryker Corp. Zoetis Inc.	8,962,658	1,881,62
Boston Scientific Corp.	13,425,665	1,776,8
· ·	39,278,030 8,788,488	1,776,1
Allergan plc Vertex Pharmaceuticals Inc.		1,680,0
Biogen Inc.	7,240,328 5,084,654	1,585,2° 1,508,70
Illumina Inc.	4,142,312	1,306,76
Edwards Lifesciences Corp.	5,876,280	1,374,1
Humana Inc.	3,731,117	1,370,6
Baxter International Inc.	14,365,712	1,201,2
HCA Healthcare Inc.	7,643,617	1,129,8
Zimmer Biomet Holdings Inc.	5,795,890	867,5
Regeneron Pharmaceuticals Inc.	2,281,758	856,7
IQVIA Holdings Inc.	4,651,009	718,62
Centene Corp.	11,065,329	695,6
Alexion Pharmaceuticals Inc.	5,933,708	641,7
IDEXX Laboratories Inc.	2,416,096	630,9
ResMed Inc.	4,053,368	628,1
DexCom Inc.	2,578,662	564,0
Align Technology Inc.	1,999,775	558,0
Teleflex Inc.	1,305,090	491,2
WellCare Health Plans Inc.	1,413,003	466,58
Laboratory Corp. of America Holdings	2,736,674	462,9
Incyte Corp.	5,168,791	451,3
Cooper Cos. Inc.	1,397,517	449,0
BioMarin Pharmaceutical Inc.	5,051,152	427,0
Cardinal Health Inc.	8,260,056	417,79
Quest Diagnostics Inc.	3,783,925	404,08
Hologic Inc.	7,560,838	394,7
Seattle Genetics Inc.	3,383,951	386,6
Exact Sciences Corp.	4,152,833	384,0
STERIS plc	2,387,221	363,8
Varian Medical Systems Inc.	2,562,187	363,8
Alnylam Pharmaceuticals Inc.	3,148,889	362,6
Dentsply Sirona Inc.	6,279,146	355,3
West Pharmaceutical Services Inc.	2,086,604	313,6
Elanco Animal Health Inc.	10,510,862	309,5
Universal Health Services Inc. Class B	2,153,271	308,9
PerkinElmer Inc.	3,135,130	304,4
Insulet Corp.	1,742,049	298,2
Mylan NV	14,518,973	291,8
Neurocrine Biosciences Inc.	2,601,008	279,5
Henry Schein Inc.	4,140,003	276,2
Sarepta Therapeutics Inc.	1,988,386	256,58
Molina Healthcare Inc.	1,764,941	239,48

Bio-Techne Corp.	Value
Catalent Inc. 4,115,680 Jazz Pharnaceuticals plc 1,514,590 Bio-Rad Laboratories Inc. Class A 596,434 Ionis Pharmaceuticals Inc. 3,554,734 Masimo Corp. 1,885,688 Charles River Laboratories International Inc. 1,885,688 Charles River Laboratories International Inc. 1,208,943 PRA Health Sciences Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,834,872 Parrigo Co. plc 3,835,778 Medicines Co. 2,007,673 Arowhead Pharmaceuticals Inc. 2,670,284 Teladoc Health Inc. 2,007,075 Haemonetics Corp. 1,427,395 Health Equity Inc. 1,978,003 Penumbra Inc. 8,498,487 Health Equity Inc. 2,823,768 Penumbra Inc. 3,26,222 Syneos Health Inc. 2,233,286 Reata Pharmaceuticals Inc. Class A 660,171	(\$000)
Jazz Pharmaceuticals plc 1514 590 Bio-Rad Laboratories Inc. Class A 596,434 Ionis Pharmaceuticals Inc. 3,554,734 Masimo Corp. 1,357,552 Hill-Rom Holdings Inc. 1,374,457 ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,552 Perrigo Co. plc 3,634,872 DaVita Inc. 9,883,778 Avantor Inc. 9,883,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,673 Haemonetics Corp. 1,427,395 Haemonetics Corp. 1,427,395 Haemonetics Corp. 1,978,023 Penumbra Inc. 9,005,594 Exelixis Inc. 9,005,94 Exelixis Inc. 1,978,023 Penumbra Inc. 9,005,94 Exelixis Inc. 2,233,768 Exelixis Inc. 2,233,286	235,438
1. Bio-Rad Laboratories Inc. Class A 596,434 1. Ionis Pharmaceuticals Inc. 3,554,734 1. Masimo Corp. 1,367,552 Hill-Rom Holdings Inc. 1,885,688 2. Charles River Laboratories International Inc. 1,208,443 3. ABIOMED Inc. 1,208,443 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 4. Horizon Therapeutics plc 2,773,163 5. Avovere Ltd. 2,233,522 Perrigo Co. plc 3,634,872 2. Davita Inc. 2,381,556 4. Avantor Inc. 3,634,872 3. Avantor Inc. 2,007,673 4. Arrowhead Pharmaceuticals Inc. 2,007,673 5. Haemonetics Corp. 1,427,395 6. Ared Health Inc. 2,007,055 6. Ared Health Inc. 8,498,487 7. Exclixis Inc. 8,498,487 8. Penumbra Inc. 8,498,487 9. Penumbra Inc. 8,802,91 8. Reat Pharmaceuticals Inc. 2,333,286 9. Reat Pharmaceuticals Inc. 2,233,768 9. Reat Pharmaceuticals Inc. 2,233,768 1. Reat Pharmaceuticals Inc. 3,263,622 </td <td>231,713</td>	231,713
Ionis Pharmaceuticals Inc. 3,554,734 Masimo Corp. 1,367,552 Hill-Rom Holdings Inc. 1,885,688 Charles River Laboratories International Inc. 1,374,457 ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co, plc 3,634,872 DaVita Inc. 2,381,556 Avantor Inc. 2,007,673 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,673 Teladoc Health Inc. 2,007,054 Haemonetics Corp. 1,427,395 Amedisys Inc. 8,498,487 HealthEquity Inc. 8,498,487 HealthEquity Inc. 8,898,291 Penumbra Inc. 2,283,768 Bruker Corp. 2,283,768 ACADIA Pharmaceuticals Inc. Class A 660,171 First HealthEquity Inc. 1,265,782 Global Blood Therapeutics Inc. </td <td>226,098</td>	226,098
Masimo Corp. 1,357,552 Hill-Rom Holdings Inc. 1,885,688 Charles River Laboratories International Inc. 1,374,457 ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 Davita Inc. 2,381,556 A Vantor Inc. 9,683,778 Medicines Co. 2,007,673 A rrowhead Pharmaceuticals Inc. 2,670,284 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 A medisys Inc. 8,948,487 Explixis Inc. 8,983,487 Health Equity Inc. 8,90,291 Penumbra Inc. 880,291 Bruker Corp. 2,833,586 A CADIA Pharmaceuticals Inc. Class A 660,171 ** Reata Pharmaceuticals Inc. Class A 660,171 ** Reata Pharmaceuticals Inc. Class A 60,171 ** Reata Pharmaceuticals Inc. Class A 60,171 ** Reata	220,698
Hill-Rom Holdings Inc. 1,885,688 Charles River Laboratories International Inc. 1,374,457 ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 DaVita Inc. 2,381,556 Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,570,284 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,472,395 Haemonetics Corp. 900,594 Haemonetics Corp. 900,594 HealthEquity Inc. 900,594 HealthEquity Inc. 880,291 Bruker Corp. 880,291 Bruker Corp. 3,263,872 Syneos Health Inc. 2,823,768 AcADIA Pharmaceuticals Inc. Class A 660,171 Envista Holdings Corp. 4,467,754 Foreits Therapeutics Inc.	214,741
Charles River Laboratories International Inc. 1,374,457 ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 Davita Inc. 2,381,556 A vantor Inc. 2,007,673 A varowhead Pharmaceuticals Inc. 2,007,673 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exitixis Inc. 9,0594 Exitixis Inc. 1,978,023 Penumbra Inc. 1,978,023 Penumbra Inc. 2,823,768 ACADIA Pharmaceuticals Inc. 2,823,768 ACADIA Pharmaceuticals Inc. Class A 660,171 Envista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Replique Corp. 9,38,573 Integra LifeSciences Holdings Corp. 1,321,352 Mirati Therapeutics	214,575
ABIOMED Inc. 1,208,943 PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 DaVita Inc. 2,331,556 Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,073 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 A Amedisys Inc. 90,594 Exelixis Inc. 90,594 Health Equity Inc. 1,978,023 Penumbra Inc. 8,498,487 Health Equity Inc. 1,978,023 Penumbra Inc. 8,80,291 Briker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. Class A 60,171 Envista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 2,043,511 NuVasive Inc. 1,467,381 HuC	214,082 209,962
PRA Health Sciences Inc. 1,768,366 Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 Davita Inc. 2,381,556 Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,673 Haemonetics Corp. 1,427,395 Haemonetics Corp. 1,427,395 Exelixis Inc. 900,594 Exelixis Inc. 800,291 Penumbra Inc. 880,291 Penumbra Inc. 880,291 Prenumbra Inc. 3,263,622 Syneos Health Inc. 3,263,622 Syneos Health Inc. 3,233,286 Reata Pharmaceuticals Inc. Class A 660,171 Envise Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 9,08,550	206,234
Chemed Corp. 447,001 Encompass Health Corp. 2,773,163 Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 DaVita Inc. 2,381,556 A vantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,670,284 * Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 8,498,487 Health Equity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 2,823,768 ACADIA Pharmaceuticals Inc. Class A 660,171 * Envista Holdings Corp. 4,467,754 * Global Blood Therapeutics Inc. 2,135,566 * Repligen Corp. 1,205,782 * Mirati Therapeutics Inc. 938,573 * Integra LifeSciences Holdings Corp. 1,467,381 * LHC Group Inc. 5,585,195 * Wright Medical Group	196,554
Encompass Health Corp. 2,773,163	196,350
Horizon Therapeutics plc 5,240,941 Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 DaVita Inc. 2,381,556 Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,673 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 880,291 Bruker Corp. 880,291 Bruker Corp. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Pervista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 9,38,573 Integra LifeSciences Holdings Corp. 1,467,381 Novasive Inc. 9,908,950 Moderna Inc. 5,985,195	192,097
Novocure Ltd. 2,233,522 Perrigo Co. plc 3,634,872 DaVita Inc. 2,381,556 Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,670,284 * Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 * Exelixis Inc. 8,498,487 HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,233,286 Reata Pharmaceuticals Inc. Class A 660,171 Envista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 2,043,511 NuVasive Inc. 1,467,381 NuVasive Inc. 2,043,511 NuVasive Inc. 3,68,622 Moderna Inc. 5,585,195 Moderna Inc. 5,585,195	189,722
Perrigo Co. plc 3,634,872 DaVita Inc. 2,381,556 Avantor Inc. 9,883,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,007,053 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 8,498,487 HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Envist Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 2,043,511 NuVasive Inc. 2,043,511 NuVasive Inc. 2,908,950 Moderna Inc. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 <	188,219
Avantor Inc. 9,683,778 Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,670,284 Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 8,498,487 HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Penumbra Inc. 2,333,286 Global Blood Therapeutics Inc. 1,605,782 Global Blood Therapeutics Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 2,933,573 Integra Life Sciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 9,089,500 Moderna Inc. 5,585,195 Wight Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. <td>187,777</td>	187,777
** Medicines Co. 2,007,673 Arrowhead Pharmaceuticals Inc. 2,670,284 ** Teladoc Health Inc. 2,020,705 ** Haemonetics Corp. 1,427,395 ** Amedisys Inc. 900,594 ** Exelixis Inc. 8,498,487 ** HealthEquity Inc. 1,978,023 ** Penumbra Inc. 880,291 ** Bruker Corp. 2,823,768 ** ACADIA Pharmaceuticals Inc. 3,263,622 ** Syness Health Inc. 2,333,286 ** Reata Pharmaceuticals Inc. Class A 660,171 ** Envista Holdings Corp. 4,467,754 ** Global Blood Therapeutics Inc. 1,605,782 ** Global Medical Inc. 2,155,566 ** Repligen Corp. 1,321,352 ** Mirati Therapeutics Inc. 938,573 ** Integra LifeSciences Holdings Corp. 2,043,511 ** Nu/asive Inc. 1,467,381 ** Uniform Inc. 2,908,950 ** Modernal Inc. 5,585,195 ** Wight Medical Group NV 3,559,215 ** Wight Medicines Corp. 1,316,521 ** Blueprint Medicines Corp.	178,688
- Arrowhead Pharmaceuticals Inc. 2,670,284 - Teladoc Health Inc. 2,020,705 - Haemonetics Corp. 1,427,395 - Amedisys Inc. 900,594 - Exelixis Inc. 8,498,487 - HealthEquity Inc. 1,978,023 - Penumbra Inc. 880,291 Bruker Corp. 2,823,768 - ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 - Reata Pharmaceuticals Inc. Class A 660,171 - Reata Pharmaceuticals Inc. Class A 660,171 - Repligen Corp. 4,467,754 - Global Blood Therapeutics Inc. 1,605,782 - Repligen Corp. 1,321,352 - Mirati Therapeutics Inc. 938,573 - Integra LifeSciences Holdings Corp. 2,043,511 - NuVasive Inc. 904,843 - Tenet Healthcare Corp. 2,908,950 - Moderna Inc. 5,585,195 - Wight Medical Group NV 3,559,215 - Nektar Therapeutics Class A 4,936,909 - Blueprint Medicines Corp. 1,316,521 - Might Medicines Corp.	175,761
Teladoc Health Inc. 2,020,705 Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 8,498,487 HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Envista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wiright Medical Group NV 3,559,215 Nektar Therapeutics Corp. 4,936,909 Blueprint Medicines Corp. 4,970,815 Blueprint Medicines Corp. 4,970,815 Sage Therapeutics Inc. 1,453,845	170,532
Haemonetics Corp. 1,427,395 Amedisys Inc. 900,594 Exelixis Inc. 8,498,487 HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Heatist Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	169,376
* Amedisys Inc. 900,594 * Exelixis Inc. 8,498,487 * HealthEquity Inc. 1,978,023 * Penumbra Inc. 880,291 Bruker Corp. 2,823,768 * ACADIA Pharmaceuticals Inc. 3,263,622 * Syneos Health Inc. 2,333,286 * Reata Pharmaceuticals Inc. Class A 660,171 * Finista Holdings Corp. 4,467,754 * Global Blood Therapeutics Inc. 1,605,782 * Globus Medical Inc. 2,155,566 * Repligen Corp. 1,321,352 * Mirati Therapeutics Inc. 938,573 * Integra LifeSciences Holdings Corp. 2,043,511 * NuVasive Inc. 1,467,381 * LHC Group Inc. 804,843 * Tenet Healthcare Corp. 2,908,950 * Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	169,173
** Exelixis Înc. 8,498,487 * HealthEquity Înc. 1,978,023 * Penumbra Înc. 880,291 Bruker Corp. 2,823,768 * ACADIA Pharmaceuticals Înc. 3,263,622 * Syneos Health Înc. 2,333,286 * Reata Pharmaceuticals Înc. Class A 660,171 * Envista Holdings Corp. 4,467,754 * Global Blood Therapeutics Înc. 1,605,782 * Globus Medical Înc. 2,155,566 * Repligen Corp. 1,321,352 * Mirati Therapeutics Înc. 938,573 * Integra Life Sciences Holdings Corp. 2,043,511 * NuVasive Înc. 1,467,381 * LHC Group Înc. 804,843 * Tenet Healthcare Corp. 2,908,950 * Moderna Înc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Il Immunomedics Înc. 4,970,815 * Sage Therapeutics Înc. 1,453,845	164,008
HealthEquity Inc. 1,978,023 Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Including Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,998,950 Moderna Inc. 5,585,195 Moderna Inc. 5,585,195 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 4,976,815 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	150,327
Penumbra Inc. 880,291 Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Ի Fuvista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Mirati Therapeutics Inc. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wiright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	149,743
Bruker Corp. 2,823,768 ACADIA Pharmaceuticals Inc. 3,263,622 Syneos Health Inc. 2,333,286 Reata Pharmaceuticals Inc. Class A 660,171 Envista Holdings Corp. 4,467,754 Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	146,512
* ACADIA Pharmaceuticals Inc. 3,263,622 * Syneos Health Inc. 2,333,286 * Reata Pharmaceuticals Inc. Class A 660,171 * Envista Holdings Corp. 4,467,754 * Global Blood Therapeutics Inc. 1,605,782 * Globus Medical Inc. 2,155,566 * Repligen Corp. 1,321,352 * Mirati Therapeutics Inc. 938,573 * Integra LifeSciences Holdings Corp. 2,043,511 * NuVasive Inc. 1,467,381 * LHC Group Inc. 804,843 * Tenet Healthcare Corp. 2,908,950 * Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	144,605 143,927
 Syneos Health Inc. Reata Pharmaceuticals Inc. Class A Benvista Holdings Corp. Global Blood Therapeutics Inc. Globus Medical Inc. Repligen Corp. Mirati Therapeutics Inc. Mirati Therapeutics Inc. Integra LifeSciences Holdings Corp. NuVasive Inc. LHC Group Inc. Tenet Healthcare Corp. Moderna Inc. Wright Medical Group NV Nektar Therapeutics Class A Blueprint Medicines Corp. Medical Group Medical Group. Nektar Therapeutics Class A Blueprint Medicines Corp. Sage Therapeutics Inc. 1,453,845 	139,618
* Reata Pharmaceuticals Inc. Class A 660,171 * Envista Holdings Corp. 4,467,754 * Global Blood Therapeutics Inc. 1,605,782 * Globus Medical Inc. 2,155,566 * Repligen Corp. 1,321,352 * Mirati Therapeutics Inc. 938,573 * Integra LifeSciences Holdings Corp. 2,043,511 * NuVasive Inc. 1,467,381 * LHC Group Inc. 804,843 * Tenet Healthcare Corp. 2,908,950 * Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	138,772
*** Envista Holdings Corp. 4,467,754 ** Global Blood Therapeutics Inc. 1,605,782 ** Globus Medical Inc. 2,155,566 ** Repligen Corp. 1,321,352 * Mirati Therapeutics Inc. 938,573 * Integra LifeSciences Holdings Corp. 2,043,511 * NuVasive Inc. 1,467,381 * LHC Group Inc. 804,843 * Tenet Healthcare Corp. 2,908,950 * Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	134,959
Global Blood Therapeutics Inc. 1,605,782 Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	132,424
Globus Medical Inc. 2,155,566 Repligen Corp. 1,321,352 Mirati Therapeutics Inc. 938,573 Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	127,644
 Mirati Therapeutics Inc. Integra LifeSciences Holdings Corp. NuVasive Inc. LHC Group Inc. Tenet Healthcare Corp. Moderna Inc. Wright Medical Group NV Nektar Therapeutics Class A Blueprint Medicines Corp. Immunomedics Inc. Sage Therapeutics Inc. 938,573 2,043,511 4,467,381 2,908,950 5,585,195 4,936,909 1,316,521 4,970,815 Sage Therapeutics Inc. 1,453,845 	126,920
Integra LifeSciences Holdings Corp. 2,043,511 NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	122,225
NuVasive Inc. 1,467,381 LHC Group Inc. 804,843 Tenet Healthcare Corp. 2,908,950 Moderna Inc. 5,585,195 Wright Medical Group NV 3,559,215 Nektar Therapeutics Class A 4,936,909 Blueprint Medicines Corp. 1,316,521 Immunomedics Inc. 4,970,815 Sage Therapeutics Inc. 1,453,845	120,945
 LHC Group Inc. Tenet Healthcare Corp. Moderna Inc. Wright Medical Group NV Nektar Therapeutics Class A Blueprint Medicines Corp. Immunomedics Inc. Sage Therapeutics Inc. 804,843 4,908,950 4,936,909 1,316,521 4,970,815 Sage Therapeutics Inc. 1,453,845 	119,096
* Tenet Healthcare Corp. 2,908,950 * Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	113,487
*** Moderna Inc. 5,585,195 * Wright Medical Group NV 3,559,215 * Nektar Therapeutics Class A 4,936,909 * Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	110,875
 Wright Medical Group NV Nektar Therapeutics Class A Blueprint Medicines Corp. Immunomedics Inc. Sage Therapeutics Inc. 3,559,215 4,936,909 1,316,521 4,970,815 Sage Therapeutics Inc. 1,453,845 	110,627
 Nektar Therapeutics Class A Blueprint Medicines Corp. Immunomedics Inc. Sage Therapeutics Inc. 4,936,909 1,316,521 4,970,815 5age Therapeutics Inc. 1,453,845 	109,246
* Blueprint Medicines Corp. 1,316,521 * Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	108,485
* Immunomedics Inc. 4,970,815 * Sage Therapeutics Inc. 1,453,845	106,563 105,466
* Sage Therapeutics Inc. 1,453,845	105,400
	104,953
·/··-/···	104,153
* Guardant Health Inc. 1,323,273	103,401
* ICU Medical Inc. 551,551	103,206
* Omnicell Inc. 1,185,290	96,862
* Neogen Corp. 1,482,169	96,726
* Nevro Corp. 820,536	96,446
* Bluebird Bio Inc. 1,095,213	96,105
* Tandem Diabetes Care Inc. 1,586,978	94,600
* Alkermes plc 4,450,663	90,794
* FibroGen Inc. 2,109,035	90,457
* lovance Biotherapeutics Inc. 3,223,469	89,226
CONMED Corp. 792,680	88,645 96,257
* Intercept Pharmaceuticals Inc. 696,072	86,257
 MyoKardia Inc. Agios Pharmaceuticals Inc. 1,173,532 1,756,338 	85,533 83,865
* Acadia Healthcare Co. Inc. 2,482,633	82,473
* NeoGenomics Inc. 2,771,052	81,053
* PTC Therapeutics Inc. 1,665,199	79,980
* Quidel Corp. 1,052,038	78,934
*^ Axsome Therapeutics Inc. 737,657	76,244

			Market
		Shares	Value
_			(\$000)
*	Audentes Therapeutics Inc. HMS Holdings Corp.	1,224,526 2,469,055	73,276 73,084
*	Halozyme Therapeutics Inc.	4,073,285	72,219
*,^	Allakos Inc.	756,232	72,213
*	Select Medical Holdings Corp.	3,056,856	71,347
	Cantel Medical Corp.	1,005,184	71,268
*	Amicus Therapeutics Inc.	7,151,539	69,656
*	Acceleron Pharma Inc.	1,291,185	68,459
*	Emergent BioSolutions Inc.	1,238,630	66,824
*	Natera Inc.	1,977,533	66,623
*	Zogenix Inc.	1,267,123	66,055
*	ArQule Inc.	3,216,030	64,192
	Ensign Group Inc.	1,409,969	63,970
*	Ultragenyx Pharmaceutical Inc.	1,495,401 753,626	63,869 63,350
*	Medpace Holdings Inc. Glaukos Corp.	1,162,332	63,312
*	MEDNAX Inc.	2,267,250	63,007
*	Arena Pharmaceuticals Inc.	1,387,150	63,004
*	Momenta Pharmaceuticals Inc.	3,192,196	62,982
*	Insmed Inc.	2,492,851	59,529
*	Prestige Consumer Healthcare Inc.	1,450,238	58,735
*	Deciphera Pharmaceuticals Inc.	943,064	58,696
*	Heron Therapeutics Inc.	2,450,005	57,575
*	Ironwood Pharmaceuticals Inc. Class A	4,202,579	55,936
*	Myriad Genetics Inc.	2,001,023	54,488
*	Kodiak Sciences Inc.	726,944	52,304
	Healthcare Services Group Inc.	2,116,125	51,464
*	Pacira BioSciences Inc.	1,121,928	50,823
*	Epizyme Inc.	2,062,143	50,729
	iRhythm Technologies Inc.	740,141	50,396
*	Xencor Inc. Magellan Health Inc.	1,442,713 630,873	49,615 49,366
*	Portola Pharmaceuticals Inc.	2,042,645	49,300
	Patterson Cos. Inc.	2,378,378	48,709
*	Ligand Pharmaceuticals Inc.	463,388	48,327
*	Merit Medical Systems Inc.	1,480,732	46,228
*	Avanos Medical Inc.	1,370,555	46,188
*	Cardiovascular Systems Inc.	934,553	45,410
*	ChemoCentryx Inc.	1,132,250	44,780
*	STAAR Surgical Co.	1,266,101	44,529
*	Intra-Cellular Therapies Inc.	1,286,780	44,149
*,^	Esperion Therapeutics Inc.	738,864	44,058
*	Ra Pharmaceuticals Inc.	925,729	43,444
	Aimmune Therapeutics Inc. BioTelemetry Inc.	1,274,076	42,643 42,135
*	Apellis Pharmaceuticals Inc.	910,036 1,366,345	42,133
*	Editas Medicine Inc.	1,395,879	41,332
	US Physical Therapy Inc.	359,768	41,139
*,^	Invitae Corp.	2,528,961	40,792
*	Turning Point Therapeutics Inc.	647,880	40,356
*	Brookdale Senior Living Inc.	5,305,459	38,571
*	REGENXBIO Inc.	937,724	38,419
*	Addus HomeCare Corp.	393,732	38,279
*	Inspire Medical Systems Inc.	507,453	37,658
*	Principia Biopharma Inc.	663,998	36,374
*	Veracyte Inc.	1,290,773	36,038
*	Inogen Inc.	524,274	35,824
*	Corcept Therapeutics Inc.	2,889,200	34,959
*	Dicerna Pharmaceuticals Inc.	1,561,936	34,409
*	Forty Seven Inc.	860,808 500,207	33,890
*	Tactile Systems Technology Inc. AtriCure Inc.	500,207 1,035,040	33,769 33,649
*	Supernus Pharmaceuticals Inc.	1,416,745	33,605
*	Varex Imaging Corp.	1,099,198	32,767
		1,000,100	32,707

Fate Therapeutics Inc.				Market Value
File RCM Inc. 2,513,490 32,6			Shares	(\$000)
□ Denial Therapoutics line. 1,886,726 32,5 □ Theravance Bipoharma Inc. 1,244,016 32,2 □ Faire Pharmaceuticals Inc. 1,299,007 31,3 □ Allogene Therapoutics Inc. 1,299,007 31,3 ○ Natus Medical Inc. 493,942 30,7 ○ Cohena Biosciences inc. 1,701,617 20,7 ○ National Health Gree Corp. 341,747 22,7 ○ Consaliation Pharmaceuticals Inc. 1,818,88 23,4 ○ Consaliation Pharmaceuticals Inc. 1,818,88 24,4 ○ Consaliation Pharmaceuticals Inc. 1,818,88 24,4 □ Harger Inc. 1,818,88 24,4 □ Consaliation Pharmaceuticals Inc. 1,818,88 22,1 □ Consider Inc. 1,818,88 24,2 □ Tricida Inc. 1,819,99 22,2	*			32,715
1 Theravance Biopharma Inc. 1,244,015 32,2 2 Agric Pharmaceuticals Inc. 1,290,607 31,3 3 Isolatina Inc. 193,942 30,9 E Enatic Pharmaceuticals Inc. 498,243 30,7 Coherus Elicosencias Inc. 1,701,617 30,6 National Health Care Corp. 344,137 29,7 Artron Corp. 344,137 29,7 Artron Corp. 38,264 20,5 Artron Corp. 38,244 20,5 Artron Corp. 344,137 29,7 Artron Corp. 38,264 20,5 Karyopharm Therapeutics Inc. 18,868 20,4 Sargamo Therapeutics Inc. 312,218 27,7 NanoString Technologies Inc. 351,739 27,2 Troids Inc. 191,127 28,8 CryOul fel Inc. 199,127 28,8 CryOul fel Inc. 199,127 28,8 CryOul fel Inc. 199,127 28,8 End of International plc 5,80,116 26,6 Radius Health Inc. 1,298,616	*			32,625
- Alerie Pharmaceuticals inc. 1,299,007 31,3 - Allogene Therespeutics Inc. 1,076,657 31,3 - Natus Medical Inc. 938,842 30,7 - Coherus Biosciences inc. 1,701,617 30,6 - Matron Corp. 34,137 22,7 - Arm Corp. 34,137 22,7 - Arm Corp. 30,288 20,8 - Arm Corp. 1,422,485 20,8 - Arm Corp. 1,422,485 20,7 - Arm Corp. 1,422,485 22,7 - Respect to the corp. 3,121,18 27,7 - Nancistring Technologies Inc. 3,121,18 27,7 - Nancistring Technologies Inc. 3,131,278 27,2 - To Gradia Inc. 91,127 26,8 27,3 - To Gradia Inc. 91,127 26,8 27,3 - To Gradia Inc. 91,127 </td <td>*,^</td> <td>·</td> <td></td> <td>32,518</td>	*,^	·		32,518
Allogene Therapeutics Inc. 1,207,657 31,3	* ^			
Natus Medical Inc. 936,942 30,9 Conterus Biosciences Inc. 1,701,617 30,6 Coherus Biosciences Inc. 14,170,1617 30,6 National HealthCare Corp. 34,137 29,7 Attion Corp. 618,668 29,1 Karyopharm Therapeutics Inc. 1,06,855 22,7 Hanger Inc. 1,06,855 22,7 NanoString Technologies Inc. 33,12,218 22,7 NanoString Technologies Inc. 33,12,218 27,7 Inc. 1,06,855 27,3 Inc. 1,07,709 22,2 Inc. 3,07,709 22,2 Inc. 3,07,709 22,2 Inc. 3,07,709 22,2 Inc. 3,07,709 22,2 Inc. 2,07,709 22,2 Ent. 1,119,004 25,3 Inc. 1,225,616 26,1 Lurnines Corp. 1,118,004 25,4 Athonex Inc. 1,119,004 25,3 Athonex Inc. 1,119,004 <td< td=""><td></td><td></td><td></td><td></td></td<>				
F. Entate Pharmaceuticals Inc. 496,243 307. Coherus Biosciences Inc. 1,701,617 30.6 National HealthCare Corp. 344,137 29.7 Atrion Corp. 39,244 29.5 Constellation Pharmaceuticals Inc. 618,688 29.1 Karyopharm Therapeutics Inc. 1,462,495 28.4 Hanger Inc. 1,005,835 27.7 Sangamo Therapeutics Inc. 312,218 27.7 NanoString Technologies Inc. 393,656 27.3 1 Ox Genomics Inc. Cless A 367,179 27.2 1 Incide Inc. 991,27 28.8 E chol International pic 5,680,116 26.6 E dol International pic 5,680,116 26.6 E dol International pic 5,680,116 26.6 E dol International pic 1,118,094 25.9 Lurininex Corp. 1,118,094 25.9 I G Threapeutics Inc. 2,94,664 25.4 Alternational Research Corp. 36,665,72 20.4 Alternation Research Corp. 31,606,172 22.4	*			30,976
Coherus Biosciences Inc. 1,701,617 30,6 National HealthCare Corp. 39,264 29,5 Constellation Pharmaceuticals Inc. 616,888 29,1 Karyopharm Therapeutics Inc. 1,482,485 28,4 Hanger Inc. 1,08,685 27,3 Sangamo Therapeutics Inc. 33,12,218 27,7 NanoString Technologies Inc. 93,565 27,3 10X Genomics Inc. Class A 37,799 27,2 1 Tricods Inc. 713,798 28,2 Cryoti-fe Inc. 991,177 28,8 Endo International plc. 981,177 20,8 Lumines Corp. 1,119,004 29,8 Lumines Corp. 1,119,004 29,8 Atherex Inc. 1,167,001 25,1 Atherex Inc. 1,167,001 25,1 Inc. 1,167,001 25,1 Atherex Inc. 1,167,901 25,1 Atherex Inc. 1,167,901 25,1 Inc. 1,225,191 24,9 Abitorial Research Corp. 1,225,191 24,9<	*			30,781
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Artion Corp. 39,264 29,5		National HealthCare Corp.	• • •	29,744
1. Karyopharm Therapeutics Inc. 1,492,485 28,4 2. Sangamor Therapeutics Inc. 3,312,218 27,7 2. NanoString Technologies Inc. 36,312,218 27,7 2. NanoString Technologies Inc. 369,179 27,2 2. Tricida Inc. 367,179 27,2 2. CyoLife Inc. 991,127 26,8 2. Endo International plc 56,801,116 26,6 2. Endo International plc 1,298,616 26,1 3. Endo International plc 2,294,664 26,4 4. Althorist Corp. 1,119,094 25,9 7 To Therapeutics Inc. 2,294,664 26,4 Atherast Roc. 1,666,172 25,4 National Research Corp. 384,351 25,3 Careb Nine. 1,711,448 24,9 Bridgebio Pharma Inc. 171,448 24,9 Tioty Health Inc. 2,725,191 24,1 Shockwave Medical Inc. 553,526 24,7 Innovival Inc. 5183,914 24,4 Innovival Inc. 518,391 24,1		Atrion Corp.	39,264	29,507
1 Hanger Inc. 1,005,835 27,7 NanoString Technologies Inc. 983,655 27,3 1 NX Genomics Inc. Class A 357,179 27,2 1 Tricida Inc. 173,796 26,9 1 Endo International plc 568,0116 26,8 Endo International plc 568,0116 26,6 Luminex Corp. 1,119,094 25,9 TG Theraputics Inc. 1,666,172 25,4 Athenex Inc. 1,666,172 25,4 National Research Corp. 1,167,901 25,1 Bridgebio Pharma Inc. 1,167,901 25,1 Bridgebio Pharma Inc. 1,178,901 25,1 Trivity Health Inc. 1,225,191 24,9 Shockwave Medical Inc. 563,526 24,7 Innoviva Inc. 1,745,000 24,7 Innoviva Inc. 1,145,000 24,7 Vande Pharmaceuticals Inc. 1,512,302 24,1 Vande Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 1,460,304 23,9 Covel Corp.	*	Constellation Pharmaceuticals Inc.	618,688	29,146
Sangamor Therapeutics Inc. 3,312,218 27,7 NanOString Technologies Inc. 983,655 27,3 10X Genomics Inc. Class A 357,179 22,2 Tricida Inc. 173,796 26,9 Cycubife Inc. 991,127 26.8 Endo International plo 5,680,116 26.8 Badius Health Inc. 1,298,816 25.1 Luminex Corp. 1,119,994 25.9 TG Therapeutics Inc. 2,294,664 25.4 Athenex Inc. 1,666,172 25.4 Athenex Inc. 1,666,172 25.4 Athenex Inc. 3,84,351 25.3 CareDx Inc. 1,167,901 25.1 Toll Pathal Inc. 711,248 24.9 Shockwave Medical Inc. 563,826 24.7 Innovies Inc. 5183,914 24.4 Vanda Pharmaceuticals Inc. 5183,914 24.4 Vanda Pharmaceuticals Inc. 1,450,004 23.9 Ortholix Medical Inc. 1,450,004 23.9 Codevies inc. 5183,914 <td< td=""><td>*</td><td></td><td>· · ·</td><td>28,419</td></td<>	*		· · ·	28,419
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C VyoLife Inc. 991,127 26,8 E End International plc 5,580,116 26,8 Radius Health Inc. 1,298,616 26,1 Luminex Corp. 1,119,016 25,9 17 G Therapeutics Inc. 2,294,684 25,4 A Hennex Inc. 1,666,172 25,4 National Research Corp. 384,351 25,3 Bridgebio Pharma Inc. 711,248 25,1 Trivity Health Inc. 1,167,901 25,1 Trivity Health Inc. 563,526 24,9 Shockwave Medical Inc. 563,526 24,9 Innoviva Inc. 1,745,000 24,7 Innoviva Inc. 1,745,000 24,7 Innoviva Inc. 1,180,302 24,1 Codexis Inc. 1,180,302 23,1 Codexis Inc. 1,460,302 23,1 Corvice Core. 270,812 23,6 Corvice Core. 270,812 23,6 Corvice Core. 270,812 23,8 Pennant Group Inc. 1,111,623 23,1	*			
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TG Therapeutics Inc. 2,294,664 25,4 Athenenx Inc. 1,666,172 25,4 National Research Corp. 384,351 25,3 CareDx Inc. 711,248 24,9 Bridgebio Pharma Inc. 711,248 24,9 Tivity Health Inc. 563,526 24,7 Innoviva Inc. 563,526 24,7 Innoviva Inc. 5,183,914 24,4 Codexis Inc. 1,512,302 24,1 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthoftx Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revence Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 1,411,21 23,7 Change Healthcare Inc. 1,411,21 23,1 Rocket Pharmaceuticals Inc. 9,89,744 22,5 Actar Biotherapeutics Inc. 3,727,806 22,4 At Atlillon Pharmaceuticals Inc. 9,83,32 22,0 All Rythm Pharmaceuticals Inc. 98,341 21,5 Silk Road Medical Inc.				25,918
A Athenex Inc. 1,666,172 25,4 National Research Corp. 384,351 25,3 I CareDx Inc. 1,167,901 25,1 Bridgebio Pharma Inc. 711,248 24,9 Shockwave Medical Inc. 563,526 24,7 I Innovia Inc. 1,745,000 24,7 I Indovia Inc. 5,183,914 24,4 I Codewis Inc. 1,160,304 23,9 Orthofix Medical Inc. 514,075 23,7 Orthofix Medical Inc. 514,075 23,7 Core Core. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Charjee Healtheare Inc. 1,411,121 23,1 Rocket Pharmaceuticals Inc. 1,411,121 23,1 Rocket Pharmaceuticals Inc. 989,744 22,5 Atara Biotherapeutics Inc. 3,727,996 22,4 Atara Biotherapeuticals Inc. 383,202 21,4 Intersect ENT Inc. 863,220 21,4 Madrigal Pharmaceuticals Inc. 363,203 21,4 Vericel Corp.	*,^			25,471
Carebx Inc. 1,167,901 25.1 Bridgebio Pharma Inc. 1711,248 24,9 Tivity Health Inc. 1,225,191 24,9 Shockwave Medical Inc. 563,526 24,7 Innova Inc. 1,745,000 24,7 Z10PHARM Oncology Inc. 5,183,914 24,4 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Corvice Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Corvice Corp. 270,812 23,6 Pennant Group Inc. 1,411,121 23,5 Pennant Group Inc. 1,411,121 23,5 Rady Healthcare Inc. 1,411,121 23,1 Rady Healthcare Inc. 1,411,121 23,1 Rady Berland Inc. 398,744 22,5 Rady Berland Inc. 398,744 22,5 Altara Biotherapeutics Inc. 398,744 22,5 Madrigal Pharmaceuticals Inc. 383,491 21,5 Increase ENT Inc. 863,2	*		1,666,172	25,442
Bridgebio Pharma Inc. 711/248 24.9 Tivity Health Inc. 1,225,191 24.9 Shockwave Medical Inc. 563,526 24,7 Innovva Inc. 1,745,000 24,7 ZIOPHARM Oncology Inc. 1,145,000 24,7 Codexis Inc. 1,512,302 24,1 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 700,363 23,1 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,111,623 22,5 Revance Pharmaceuticals Inc. 1,111,623 22,5 Rocket Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 Atara Biotherapeutics Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 363,200 21,4 Silk Road Medical Inc. 236,491 21,5 Silk Road Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 InmunoGen		National Research Corp.	384,351	25,344
1. Tiviry Health Inc. 1,225,191 24,9 Shockwave Medical Inc. 563,526 24,7 Innoviva Inc. 1,745,000 24,7 21 Cedwis Inc. 5,183,914 24,4 Vanda Pharmaceutical Inc. 1,512,302 24,1 Vanda Pharmaceutical Inc. 1,600,304 23,9 Orthofix Medical Inc. 160,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,111,621 22,5 Racket Pharmaceuticals Inc. 989,744 22,5 Racket Pharmaceuticals Inc. 989,744 22,5 A chillion Pharmaceuticals Inc. 989,744 22,5 A chillion Pharmaceuticals Inc. 989,344 22,5 A chillion Pharmaceuticals Inc. 988,322 22,0 Madrigal Pharmaceuticals Inc. 988,322 22,0 Madrigal Pharmaceuticals Inc. 863,220 21,4	*			25,192
Shockwave Medical Inc. 583,526 24,7 Innoviva Inc. 1,745,000 24,7 ZIOPHARM Oncology Inc. 5,183,914 24,4 Codexis Inc. 1,512,302 24,1 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 Roket Pharmaceuticals Inc. 1,411,121 23,5 Roket Pharmaceuticals Inc. 9,89,744 22,5 Achillion Pharmaceuticals Inc. 3,272,896 22,4 Atara Biotherapeutics Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 9,58,392 22,0 Madrigal Pharmaceuticals Inc. 1,23,60,944 22,4 Silk Road Medical Inc. 523,649 21,4 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 3,90,223 20,4	*,^			24,929
Innoviva Inc. 1,745,000 24,7 ZIOPHARM Oncology Inc. 5,183,914 24,4 Codexis Inc. 1,512,302 24,1 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,111,623 22,5 Rocket Pharmaceuticals Inc. 3,93,744 22,5 Achallion Pharmaceuticals Inc. 3,927,896 22,4 Atara Biotherapeutics Inc. 3,727,896 22,4 Atara Biotherapeutics Inc. 3,96,392 22,0 Rhythm Pharmaceuticals Inc. 988,392 22,0 Rhythm Pharmaceuticals Inc. 988,392 22,0 Intersect ENT Inc. 863,220 21,4 Vericel Corp. 1,227,821 21,3 Intersect ENT Inc. 863,220 21,4 Vericel Corp. 1,227,821 21,3 Intersect	*	,		24,927
SIOPHARM Oncology Inc. 5,183,914 24,4 Codexis Inc. 1,512,302 24,1 Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 Nadis Inc. 1,111,623 22,5 Revareact Pharmaceuticals Inc. 389,744 22,5 Achillion Pharmaceuticals Inc. 358,392 22,0 Madrigal Pharmaceuticals Inc. 958,392 22,0 Intersect ENT Inc. 863,220 21,4 Silk poad Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 InmunoGen Inc. 790,723 20,8 A Lantheus Holdings Inc. 1,018,694 20,8	*			24,750
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Vanda Pharmaceuticals Inc. 1,460,304 23,9 Orthofix Medical Inc. 514,075 23,7 CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 RadNet Inc. 1,111,623 22,5 Rocket Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 A tara Biotherapeutics Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 958,392 22,0 Intersect ENT Inc. 863,220 21,4 Vericel Corp. 1,227,821 21,3 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 Lantheus Holdings Inc. 1,018,694 20,8 HealthStream Inc. 3,912,251 20,1 Anvinas Inc. 486,573 19,9 Anvinas Inc. 4370,620 19,7 Pelscin Therapeutics Inc.	*,^			
To Trhofix Medical Inc. 514,075 23,7 CoVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 RadNet Inc. 1,411,123 22,5 Rocket Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 Akhillion Pharmaceuticals Inc. 3,727,896 22,4 Rahythm Pharmaceuticals Inc. 958,392 22,0 Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 1,227,821 21,3 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 HealthStream Inc. 3,912,251 20,1 Anika Therapeutics Inc. 3,912,251 20,1 Arvinas Inc. 486,573 19,9 Eagle Pharmaceuticals Inc. 331,937 19,9 Eagle Pharmaceu	*			
CorVel Corp. 270,812 23,6 Revance Therapeutics Inc. 1,450,212 23,5 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 RadNet Inc. 1,111,623 22,5 Achillion Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 Rhythm Pharmaceuticals Inc. 358,392 22,0 Madrigal Pharmaceuticals Inc. 988,392 22,0 Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 ImmonGen Inc. 1,278,21 21,3 Lantheus Holdings Inc. 790,723 20,8 Health Stream Inc. 3,912,251 20,1 Anika Therapeutics Inc. 3,912,251 20,1 Anika Therapeutics Inc. 387,703 20,1 Anika Therapeutics Inc. 331,937 19,9 Demrira Inc. 331,937 19,9 Eagle Pharmaceutica	*			23,740
Revance Therapeutics Inc. 1,450,212 23,50 Pennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 RadNet Inc. 1,111,623 22,5 Achillion Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 Rhythm Pharmaceuticals Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 958,392 22,0 Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 863,220 21,4 Verice Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 Latheus Holdings Inc. 752,263 20,4 Pacific Biosciences of California Inc. 3,912,251 20,1 Pacific Biosciences of California Inc. 387,703 20,1 Arvinas Inc. 486,573 19,9 Eagle Pharmaceuticals Inc. 4,370,620 19,7	*		·	23,658
Fennant Group Inc. 700,363 23,1 Change Healthcare Inc. 1,411,121 23,1 Rabet Inc. 1,111,623 22,5 Rocket Pharmaceuticals Inc. 989,744 22,5 Achillion Pharmaceuticals Inc. 3,727,896 22,4 Atara Biotherapeutics Inc. 1,360,944 22,4 Rhythm Pharmaceuticals Inc. 958,392 22,0 Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 Gif Therapeutics Inc. 790,723 20,8 HealthStream Inc. 752,263 20,4 Omeros Corp. 1,429,761 20,1 Anika Therapeutics Inc. 3,912,251 20,1 Anika Therapeutics Inc. 387,703 20,1 Arvinas Inc. 387,703 20,1 Application of Societies of California Inc. 387,703 20,1 Ape	*			23,537
*** RadNet Inc. 1,111,623 22,5 ** Rocket Pharmaceuticals Inc. 989,744 22,5 ** Achillon Pharmaceuticals Inc. 3,727,896 22,4 ** Atara Biotherapeutics Inc. 1,360,944 22,4 ** Rhythm Pharmaceuticals Inc. 988,392 22,0 ** Madrigal Pharmaceuticals Inc. 236,491 21,5 ** Intersect ENT Inc. 863,220 21,4 ** Vericel Corp. 1,227,821 21,3 ** Vericel Corp. 1,227,821 21,3 ** UnimonGen Inc. 4,094,337 20,9 ** Lantheus Holdings Inc. 790,723 20,8 ** Lantheus Holdings Inc. 752,263 20,4 ** Pacific Biosciences of California Inc. 3,912,251 20,1 ** Avinas Inc. 387,703 20,1 ** Pacific Biosciences of California Inc. 387,703 20,1 ** Avinas Inc. 387,703 20,1 ** Dermira Inc. 331,937 19,9 ** Eagle Pharmaceuticals Inc. 941,811 19,4 ** Collegium Pharmaceutical Inc. 941,8	*			23,161
*** Rocket Pharmaceuticals Inc. 989,744 22,5 *** Achillion Pharmaceuticals Inc. 3,727,896 22,4 *** Atara Biotherapeutics Inc. 1,360,944 22,4 *** Rhythm Pharmaceuticals Inc. 958,392 22,0 *** Madrigal Pharmaceuticals Inc. 236,491 21,5 ** Intersect ENT Inc. 863,220 21,4 ** Vericel Corp. 1,227,821 21,3 ** Vericel Corp. 1,227,821 21,3 ** UnmunoGen Inc. 4,094,337 20,9 ** G1 Therapeutics Inc. 790,723 20,8 ** HealthStream Inc. 790,723 20,8 ** HealthStream Inc. 752,63 20,4 ** Pacific Biosciences of California Inc. 3,912,251 20,1 ** Pacific Biosciences of California Inc. 3,912,251 20,1 ** Pacific Biosciences of California Inc. 387,703 20,1 ** Pacific Biosciences of California Inc. 313,	*,^		1,411,121	23,128
- Achillion Pharmaceuticals Inc. 3,727,896 22,4 - Atara Biotherapeutics Inc. 1,360,944 22,4 - Rhythm Pharmaceuticals Inc. 958,392 22,0 - Madrigal Pharmaceuticals Inc. 236,491 21,5 - Intersect ENT Inc. 863,220 21,4 - Silk Road Medical Inc. 532,263 21,4 - Vericel Corp. 1,227,821 21,3 - ImmunoGen Inc. 4,994,337 20,9 - Intersect ENT Inc. 790,723 20,8 - ImmunoGen Inc. 4,994,337 20,9 - Intersect Entles Inc. 1,918,694 20,8 - Lantheus Holdings Inc. 1,918,694 20,8 - HealthStream Inc. 752,263 20,4 - Omeros Corp. 1,429,761 20,1 - Pacific Biosciences of California Inc. 3,912,251 20,1 - Anika Therapeutics Inc. 387,703 20,1 - Arivinas Inc. 486,573 19,9 - Dermira Inc. 1,317,610 19,9 - Eagle Pharmaceuticals Inc. 941,811 19,4 - Collegium Pharmaceutical Inc. 941,811 19,4	*		1,111,623	22,566
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Rhythm Pharmaceuticals Inc. 958,392 22,0 Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Vericel Corp. 532,263 21,4 ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 Lantheus Holdings Inc. 752,263 20,4 Health Stream Inc. 752,263 20,4 Pacific Biosciences of California Inc. 3,912,251 20,1 Pacific Biosciences of California Inc. 3,912,251 20,1 Anika Therapeutics Inc. 387,703 20,1 Arvinas Inc. 486,573 19,9 Eagle Pharmaceuticals Inc. 13,17,610 19,9 Kadmon Holdings Inc. 4,370,620 19,7 Flexion Therapeutics Inc. 941,811 19,4 Collegium Pharmaceutical Inc. 941,938 19,3 Akebia Therapeutics Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 4,124,118 19,3 <td>*</td> <td></td> <td></td> <td>22,479</td>	*			22,479
Madrigal Pharmaceuticals Inc. 236,491 21,5 Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 Lantheus Holdings Inc. 1,018,694 20,8 HealthStream Inc. 752,263 20,4 Omeros Corp. 1,429,761 20,1 Anika Therapeutics Inc. 3,912,251 20,1 Arvinas Inc. 486,573 19,9 Dermira Inc. 1,317,610 19,9 Eagle Pharmaceuticals Inc. 4,370,620 19,7 Kadmon Holdings Inc. 4,370,620 19,7 Flexion Therapeutics Inc. 941,811 19,4 Collegium Pharmaceutical Inc. 941,938 19,3 Antares Pharma Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 201,254 19,3 Heska Corp. 201,254 19,3	*	·		22,415
Intersect ENT Inc. 863,220 21,4 Silk Road Medical Inc. 532,263 21,4 Vericel Corp. 1,227,821 21,3 ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 Lantheus Holdings Inc. 1,018,694 20,8 HealthStream Inc. 752,263 20,4 Omeros Corp. 1,429,761 20,1 Pacific Biosciences of California Inc. 3,912,251 20,1 Anika Therapeutics Inc. 387,703 20,1 Arvinas Inc. 486,573 19,9 Avrinas Inc. 486,573 19,9 Kadmon Holdings Inc. 331,937 19,9 Kadmon Holdings Inc. 4,370,620 19,7 Flexion Therapeutics Inc. 941,811 19,4 Collegium Pharmaceutical Inc. 941,811 19,4 Antares Pharma Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 3,062,538 19,3 Heska Corp. 201,254 19,3		,	·	,
** Silk Road Medical Inc. 532,263 21,4 * Vericel Corp. 1,227,821 21,3 * ImmunoGen Inc. 4,094,337 20,9 G1 Therapeutics Inc. 790,723 20,8 * Lantheus Holdings Inc. 1,018,694 20,8 * Health Stream Inc. 752,263 20,4 * Omeros Corp. 1,429,761 20,1 * Pacific Biosciences of California Inc. 3,912,251 20,1 * Anika Therapeutics Inc. 387,703 20,1 * Arvinas Inc. 486,573 19,9 * Dermira Inc. 1,317,610 19,9 * Eagle Pharmaceuticals Inc. 331,937 19,9 * Kadmon Holdings Inc. 4,370,620 19,7 * Flexion Therapeutics Inc. 941,811 19,4 * Collegium Pharmaceutical Inc. 941,811 19,4 * Collegium Pharmaceutical Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*	· · · · · · · · · · · · · · · · · · ·		
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HealthStream Inc. 752,263 20,4 Omeros Corp. 1,429,761 20,1 Pacific Biosciences of California Inc. 3,912,251 20,1 Anika Therapeutics Inc. 387,703 20,1 Arvinas Inc. 486,573 19,9 Permira Inc. 1,317,610 19,9 Eagle Pharmaceuticals Inc. 331,937 19,9 Kadmon Holdings Inc. 4,370,620 19,7 Flexion Therapeutics Inc. 941,811 19,4 Collegium Pharmaceutical Inc. 941,938 19,3 Antares Pharma Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 3,062,538 19,3 Heska Corp. 201,254 19,3	*		·	20,893
* Pacific Biosciences of California Inc. 3,912,251 20,10 * Anika Therapeutics Inc. 387,703 20,10 * Arvinas Inc. 486,573 19,9 * Dermira Inc. 1,317,610 19,9 * Eagle Pharmaceuticals Inc. 331,937 19,9 * Kadmon Holdings Inc. 4,370,620 19,7 * Flexion Therapeutics Inc. 941,811 19,4 * Collegium Pharmaceutical Inc. 941,938 19,3 * Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*	· · · · · · · · · · · · · · · · · · ·		20,462
* Anika Therapeutics Inc. 387,703 20,10 * Arvinas Inc. 486,573 19,90 * Dermira Inc. 1,317,610 19,90 * Eagle Pharmaceuticals Inc. 331,937 19,90 * Kadmon Holdings Inc. 4,370,620 19,70 * Flexion Therapeutics Inc. 941,811 19,40 * Collegium Pharmaceutical Inc. 941,938 19,30 * Antares Pharma Inc. 4,124,118 19,30 * Akebia Therapeutics Inc. 3,062,538 19,30 * Heska Corp. 201,254 19,30	*,^	Omeros Corp.	1,429,761	20,145
* Arvinas Inc. 486,573 19,9 * Dermira Inc. 1,317,610 19,9 * Eagle Pharmaceuticals Inc. 331,937 19,9 * Kadmon Holdings Inc. 4,370,620 19,7 * Flexion Therapeutics Inc. 941,811 19,4 * Collegium Pharmaceutical Inc. 941,938 19,3 * Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*			20,109
*** Dermira Inc. 1,317,610 19,9 ** Eagle Pharmaceuticals Inc. 331,937 19,9 ** Kadmon Holdings Inc. 4,370,620 19,7 ** Flexion Therapeutics Inc. 941,811 19,4 ** Collegium Pharmaceutical Inc. 941,938 19,3 ** Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*	·		20,102
Eagle Pharmaceuticals Inc. 331,937 19,9 Kadmon Holdings Inc. 4,370,620 19,7 Flexion Therapeutics Inc. 941,811 19,4 Collegium Pharmaceutical Inc. 941,938 19,3 Antares Pharma Inc. 4,124,118 19,3 Akebia Therapeutics Inc. 3,062,538 19,3 Heska Corp. 201,254 19,3	*			19,993
* Kadmon Holdings Inc. 4,370,620 19,79 * Flexion Therapeutics Inc. 941,811 19,49 * Collegium Pharmaceutical Inc. 941,938 19,30 * Antares Pharma Inc. 4,124,118 19,30 * Akebia Therapeutics Inc. 3,062,538 19,30 * Heska Corp. 201,254 19,30	*,^			19,975
* Flexion Therapeutics Inc. 941,811 19,4 * Collegium Pharmaceutical Inc. 941,938 19,3 * Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*	0		19,943
* Collegium Pharmaceutical Inc. 941,938 19,3 * Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*			19,799
* Antares Pharma Inc. 4,124,118 19,3 * Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*			
* Akebia Therapeutics Inc. 3,062,538 19,3 * Heska Corp. 201,254 19,3	*			19,385
* Heska Corp. 201,254 19,3	*			19,363
	*			19,308
7 Naruna morapoulos inc. 200.747 19.2	*,^	Karuna Therapeutics Inc.	255,747	19,268

		Market Value
	Shares	(\$000)
Gossamer Bio Inc.	1,231,336	19,246
NextCure Inc.	339,019	19,097
Amphastar Pharmaceuticals Inc.	989,237	19,082 19,050
Durect Corp. Cara Therapeutics Inc.	5,013,032 1,179,613	19,004
Y-mAbs Therapeutics Inc.	603,874	18,871
Retrophin Inc.	1,283,312	18,223
Axogen Inc.	1,018,358	18,218
Adverum Biotechnologies Inc.	1,538,817	17,727
Krystal Biotech Inc.	313,524	17,363
Cytokinetics Inc.	1,623,037	17,220
LeMaitre Vascular Inc.	478,977	17,219
Assembly Biosciences Inc.	834,166	17,067
Cerus Corp.	3,967,073	16,741
Kura Oncology Inc.	1,209,831	16,635
OPKO Health Inc.	11,229,587	16,507
Intellia Therapeutics Inc.	1,079,042	15,830
Adaptive Biotechnologies Corp.	528,019 985,569	15,798 15,779
AngioDynamics Inc. Cortexyme Inc.	985,569 276,822	15,779
TherapeuticsMD Inc.	6,386,860	15,541
Alector Inc.	895,951	15,437
Clovis Oncology Inc.	1,462,934	15,251
MacroGenics Inc.	1,372,358	14,931
Option Care Health Inc.	3,951,026	14,737
Viking Therapeutics Inc.	1,822,328	14,615
ANI Pharmaceuticals Inc.	236,566	14,589
Surmodics Inc.	351,651	14,569
BioCryst Pharmaceuticals Inc.	4,165,478	14,371
SmileDirectClub Inc.	1,616,844	14,131
OrthoPediatrics Corp.	297,707	13,989
Ardelyx Inc.	1,863,627	13,987
OraSure Technologies Inc.	1,739,375	13,967
Relmada Therapeutics Inc.	354,100	13,810
BioDelivery Sciences International Inc. PetIQ Inc. Class A	2,167,338	13,698
Cutera Inc.	543,975 379,492	13,627 13,590
Amneal Pharmaceuticals Inc.	2,811,815	13,553
Stemline Therapeutics Inc.	1,267,932	13,478
Quanterix Corp.	567,826	13,418
ViewRay Inc.	3,168,703	13,372
Avrobio Inc.	654,001	13,165
Dynavax Technologies Corp. Class A	2,269,045	12,979
Synthorx Inc.	185,143	12,940
Accelerate Diagnostics Inc.	755,926	12,775
Agenus Inc.	3,109,343	12,655
Twist Bioscience Corp.	594,000	12,474
Sientra Inc.	1,374,928	12,292
Provention Bio Inc.	820,347	12,223
Avid Bioservices Inc.	1,591,048	12,203
Voyager Therapeutics Inc.	871,872	12,163
Triple-S Management Corp. Class B Odonate Therapeutics Inc.	655,778 370,406	12,125 12,020
Sorrento Therapeutics Inc.	3,528,234	12,020
Homology Medicines Inc.	568,781	11,774
Progenics Pharmaceuticals Inc.	2,306,141	11,774
Axonics Modulation Technologies Inc.	419,114	11,614
CytomX Therapeutics Inc.	1,367,661	11,365
Eiger BioPharmaceuticals Inc.	759,974	11,324
AnaptysBio Inc.	688,681	11,191
IGM Biosciences Inc.	285,947	10,912
Utah Medical Products Inc.	100,221	10,814
Meridian Bioscience Inc.	1,100,229	10,749
AMAG Pharmaceuticals Inc.	883,207	10,749

Spectrum Pharmaceuticals Inc.				Market
Spectrum Pharmacouticals Inc. 2,948,132 10,721			CI	Value
- Recor Pharma Inc. 569,794 10,444 - Cotus Pharmaceuticals Inc. 1,871,725 10,216 - Cotus Pharmaceuticals Inc. 1,871,125 10,216 - Rage Pharmaceuticals Inc. 4,673,182 9,662 - Rage Pharmaceuticals Inc. 4,673,182 9,662 - Rage Pharmaceuticals Inc. 1,25,788 9,682 - Prograph Inc. 1,217,788 9,653 - Prograph Inc. 16,519 9,682 - Prograph Inc. 16,519 9,682 - Rage Inc. 880,089 9,543 - Eliois Therapeutics Inc. 16,519 9,682 - SI BONE Inc. 473,574 9,408 - Procision BuSciences Inc. 16,539 9,183 - Community Health Systems Inc. 3,798,313 9,275 - Community Health Systems Inc. 2,756,474 9,682 - Inc. 1,683,30 9,183 - Inc. 1,683,30 9,183 - Inc. 1,683,30 9,183 - Inc. 1,683,30 9,183 - Inc.	_			
Intercon Corp. 1,867,600 10,234 Corbus Pharmaceuticals Inc. 2,774,057 10,215 Catalyst Pharmaceuticals Inc. 2,724,057 10,215 Misterial Inc. 228,033 9,836 Misterial Inc. 1,328,033 9,836 VBERIC Inc. 1,328,033 9,836 VBERIC Inc. 1,27,889 9,543 Kindred Bioceineous Inc. 165,198 9,543 Flance Nucl. 889,800 9,543 Flance Nucl. 165,198 9,543 Flance Nucl. 165,198 9,543 Flance Nucl. 435,574 9,408 Procession BioScience Inc. 435,574 9,408 Procession BioScience Inc. 435,574 9,408 Procession BioScience Inc. 435,533 9,367 Community Health Systems Inc. 160,800 9,158 Si BONE Inc. 435,566 8,380 Community Health Systems Inc. 455,566 8,380 TransMediac Group Inc. 2,242,402 9,494 TransMediac Group Inc.	*			
Cobus Phirmaneuticals Hollings Inc. 1,377,125 10,216 Catalyst Phirmaneuticals Inc. 2,724,687 10,216 Rigio Pharmacouticals Inc. 4,673,134 10,001 VRICRIC Inc. 1132,887 3,720 Progray Inc. 31,163,883 9,685 Progray Inc. 31,681,893 9,683 Process Inc. 360,000 9,543 Eldos Therapautics Inc. 168,189 9,481 Si BONE Inc. 437,574 9,408 Processo BioSciences Inc. 674,393 9,367 Community Health Systems Inc. 31,98,313 9,275 Incova Pharmaceuticals Inc. 2,794,474 9,090 Poll BoPharma Inc. 2,794,474 9,090 PLI BoPharma Inc. 2,794,474 9,090 Pub BoPharma Inc. 2,794,474 9,090 Owers & Minor Inc. 1,704,507 8,818 Grant Mark Diagnostics Inc. 1,904,507 8,818 Invacare Corp. 982,641 8,839 Invacare Corp. 982,641 8,839 <td< td=""><td>* ^</td><td></td><td></td><td></td></td<>	* ^			
Calayst Pharmaceuticals Inc. 4,272,184 10,010 Xistorech Inc. 528,503 9,865 VFEIR Cib Inc. 1,122,887 9,700 Propony Inc. 331,610 9,652 Kindred Biosciences Inc. 1,177,883 9,563 Floor Mine. 483,098 9,454 Floor Mine. 431,574 9,468 Floor Mine. 431,583 9,367 Community Health Systems Inc. 160,830 9,158 Inching Terms Medical Circle. 2,754,474 9,000 PDL BioPharma Inc. 2,754,474 9,000 PDL BioPharma Inc. 2,754,978 8,940 Trans-Medica Group Inc. 4,665,566 8,860 Clastic Corp. 960,590 8,948				
18. Bigel Pharmacuclicals Inc. 4,673,144 1,0001 MERIC bio Inc. 1,132,897 9,865 MERIC bio Inc. 1,132,897 9,770 Forgyny Inc. 351,610 9,652 Kindred Biosciences Inc. 880,800 9,543 Elbos Therapsortics Inc. 487,574 9,408 SHENCH Inc. 497,574 9,408 SHENCH Inc. 497,574 9,408 SHENCH Inc. 497,574 9,408 SHENCH Inc. 497,574 9,408 SHENCH Inc. 3,183,313 9,775 BioSpecific Feelth Systems Inc. 3,183,313 9,775 Inc. 2,754,774 9,090 PLD BioPharma Inc. 2,754,978 8,940 TransMedics Group Inc. 2,754,978 8,940 CEL-SCI Corp. 966,960 8,88 Owens & Milror Inc. 1,704,907 8,114 GenMark Diagnessis Inc. 1,204,907 8,114 Authority Engles Inc. 1,204,907 8,144 Authority Engles Inc. 1,204,907				
5. Xibitech Inc. 528,503 9,865 VERIC bio Inc. 1,132,897 9,720 Prognyn Inc. 351,610 9,662 Fleinex Inc. 888,880 9,663 Fleinex Inc. 888,880 9,443 SI-SONE Inc. 477,574 9,408 SI-SONE Inc. 477,574 9,409 Community Health Systems Inc. 1,93,313 9,25 BioSpoolfies Technologies Corp. 1160,830 9,158 Inchive Transmosticials Inc. 2,754,474 9,000 PDL BioPharma Inc. 2,754,474 9,000 POL BioPharma Inc. 2,754,978 8,940 Transmosticials Group Inc. 465,566 8,850 CEL-SCI Corp. 966,990 8,848 Owens & Mirror Inc. 1,704,907 8,814 Grow Mark Thappeutics Inc. 1,822,800 8,767 Invocare Corp. 962,641 8,683 Mallerestories Inc. 1,822,800 8,762 Invocare Corp. 962,641 8,683 Mallerestories Inc. 1,822,800 </td <td>*</td> <td></td> <td></td> <td></td>	*			
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**A pollo Medical Holdings Inc. 374,359 6,892 * Minerva Neurosciences Inc. 952,916 6,775 * Aprea Therapeutics Inc. 145,487 6,676 * Misonix Inc. 357,374 6,651 * Surgery Partners Inc. 418,719 6,555 * BioLife Solutions Inc. 404,489 6,545 * Optinose Inc. 708,073 6,528 * Translate Bio Inc. 800,026 6,512 * SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*	Syros Pharmaceuticals Inc.	1,003,963	6,937
Minerva Neurosciences Inc. 952,916 6,775 Aprea Therapeutics Inc. 145,487 6,676 Misonix Inc. 357,374 6,651 Surgery Partners Inc. 418,719 6,555 BioLife Solutions Inc. 404,489 6,545 Optinose Inc. 708,073 6,528 Translate Bio Inc. 800,026 6,512 SeaSpine Holdings Corp. 509,938 6,124 Stoke Therapeutics Inc. 212,600 6,021 MediciNova Inc. 891,718 6,010 MediciNova Inc. 370,808 5,985 Harrow Health Inc. 763,120 5,937	*			
* Aprea Therapeutics Inc. 145,487 6,676 * Misonix Inc. 357,374 6,651 * Surgery Partners Inc. 418,719 6,555 * BioLife Solutions Inc. 404,489 6,545 * Optinose Inc. 708,073 6,528 * Translate Bio Inc. 800,026 6,512 * SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*,^		•	
* Misonix Inc. 357,374 6,651 * Surgery Partners Inc. 418,719 6,555 * BioLife Solutions Inc. 404,489 6,545 * Optinose Inc. 708,073 6,528 * Translate Bio Inc. 800,026 6,512 * SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*			
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** BioLife Solutions Inc. 404,489 6,545 ** Optinose Inc. 708,073 6,528 * Translate Bio Inc. 800,026 6,512 * SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937				
** Optinose Inc. 708,073 6,528 * Translate Bio Inc. 800,026 6,512 * SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*			
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* SeaSpine Holdings Corp. 509,938 6,124 * Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*			
* Stoke Therapeutics Inc. 212,600 6,021 * MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*		·	
** MediciNova Inc. 891,718 6,010 * Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*			
* Joint Corp. 370,808 5,985 * Harrow Health Inc. 763,120 5,937	*,^			
* Harrow Health Inc. 763,120 5,937	*			
* Concert Pharmaceuticals Inc. 638,360 5,889	*		•	
	*	Concert Pharmaceuticals Inc.	638,360	5,889

** AcelRx Pharmaceuticals Inc. 2,142,380 * Eloxx Pharmaceuticals Inc. 608,308 * Marinus Pharmaceuticals Inc. 2,067,953 * Catasys Inc. 271,875 * Senseonics Holdings Inc. 341,824 * Fulgent Genetics Inc. 341,824 * XOMA Corp. 160,945 * InfuSystem Holdings Inc. 511,238 * Amyris Inc. 1,409,918 * iRadimed Corp. 185,109 * Zynex Inc. 487,199 * Agile Therapeutics Inc. 487,199 * Agile Therapeutix Inc. 1,066,121 O Oular Therapeutix Inc. 1,066,121 * Ovid therapeutics Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318	(\$000) 5,809 5,777 5,756 5,751 5,636 5,583
Syndax Pharmaceuticals Inc. 1,760,180 Abeona Therapeutics Inc. 1,760,180 RTI Surgical Holdings Inc. 2,098,963 Vapotherm Inc. 463,490 Aeglae Bil Therapeutics Inc. 730,780 Gristone Oncology Inc. 598,855 KalVista Pharmaceuticals Inc. 291,774 Verica Pharmaceuticals Inc. 325,091 Chiasma Inc. 984,427 GlycoMimetics Inc. 910,116 X4 Pharmaceuticals Inc. 910,116 X4 Pharmaceuticals Inc. 910,116 X4 Pharmaceuticals Inc. 3,725,182 Palatin Technologies Inc. 5,849,095 Hookipa Pharma Inc. 372,890 Corf Wedix Inc. 665,748 NGM Biopharmaceuticals Inc. 603,308 Eloxy Pharmaceuticals Inc. 603,308 Eloxy Pharmaceuticals Inc. 2,067,953 Catasys Inc. 2,067,953 Senseonics Holdings Inc. 4,827,947 Fulgent Genetics Inc. 34,824 VOMA Corp. 160,945 Infusystem Holdings Inc. 1,009,918	5,777 5,756 5,751 5,636
A beona Therapeutics Inc. 1,760,180 RTI Surgical Holdings Inc. 2,098,963 Vapotherm Inc. 463,490 Aeglea BioTherapeutics Inc. 730,780 Gristsone Oncology Inc. 598,855 KalVista Pharmaceuticals Inc. 291,774 Verrica Pharmaceuticals Inc. 325,091 Xeris Pharmaceuticals Inc. 719,094 Chiasma Inc. 910,116 GlycoMimetics Inc. 910,116 X4 Pharmaceuticals Inc. 910,116 A 44 Pharmaceuticals Inc. 430,247 A theresys Inc. 3,726,182 Palatin Technologies Inc. 5,849,095 Hookipa Pharma Inc. 372,890 CorMedix Inc. 625,748 MGM Biopharmaceuticals Inc. 245,251 AcelRx Pharmaceuticals Inc. 2142,380 Eloxx Pharmaceuticals Inc. 2067,953 Catasys Inc. 207,975 Senseonics Holdings Inc. 4827,947 Fulgent Genetics Inc. 341,824 VAMA Corp. 160,945 Infusystem Holdings Inc. 511,238 Ayrip	5,756 5,751 5,636
RTI Surgical Holdings Inc. 2,098,983 Vapotherm Inc. 463,490 Aeglea BicTherapeutics Inc. 790,780 Gristone Oncology Inc. 598,855 KalVista Pharmaceuticals Inc. 291,774 Verrica Pharmaceuticals Inc. 325,091 Lein Shamaceuticals Inc. 984,427 GlycoMimetics Inc. 910,116 X4 Pharmaceuticals Inc. 910,116 X4 Pharmaceuticals Inc. 3,726,182 Palatin Technologies Inc. 3,726,182 Palatin Technologies Inc. 372,890 CorMedix Inc. 245,251 Acelfix Pharmaceuticals Inc. 2,142,380 Most Biopharmaceuticals Inc. 2,142,380 Eloxx Pharmaceuticals Inc. 2,067,953 Eloxx Pharmaceuticals Inc. 2,067,953 Acelfix Pharmaceuticals Inc. 34,827,947 Fulgent Genetics Inc. 34,827,947 Fulgent Genetics Inc. 31,094,5 InfuSystem Holdings Inc. 511,238 Amyris Inc. 160,945 InfuSystem Holdings Inc. 512,273 Amyris Inc. 1,689,440 <td>5,751 5,636</td>	5,751 5,636
Vapotherm Inc. 463,490 Aegles BioTherapeutics Inc. 598,855 Kalvista Pharmaceuticals Inc. 291,774 Verrica Pharmaceuticals Inc. 325,091 Xaris Pharmaceuticals Inc. 719,094 Chiasma Inc. 994,427 GlycoMimetics Inc. 910,116 X4 Pharmaceuticals Inc. 430,247 Athersys Inc. 3,728,182 Palatin Technologies Inc. 5,849,095 CorMedix Inc. 655,748 NGM Biopharmaceuticals Inc. 214,2380 CorMedix Inc. 2,142,380 NGM Biopharmaceuticals Inc. 2,142,380 AcelRx Pharmaceuticals Inc. 2,142,380 Eloxx Pharmaceuticals Inc. 2,142,380 Eloxx Pharmaceuticals Inc. 2,147,380 Catasys Inc. 2,147,380 Senseonics Holdings Inc. 31,824 Fulgent Genetics Inc. 341,824 KMA Agria Genetics Inc. 342,733	5,636
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- Balatin Technologies Inc. 5,849,095 - Hookipa Pharma Inc. 372,890 C CrMedix Inc. 625,748 - NGM Biopharmaceuticals Inc. 245,251 - AcelRx Pharmaceuticals Inc. 2,142,380 - Eloxx Pharmaceuticals Inc. 608,308 - Marinus Pharmaceuticals Inc. 2,067,953 - Catasys Inc. 271,875 - Sensenics Holdings Inc. 4,827,947 - Fulgent Genetics Inc. 341,824 - XOMA Corp. 160,945 InfuSystem Holdings Inc. 11,409,918 - Infusioned Corp. 185,109 - Zynex Inc. 487,199 - Agile Therapeutics Inc. 487,199 - Agile Therapeutics Inc. 1,689,440 - Oular Therapeutix Inc. 1,066,121 - Ovid therapeutics Inc. 266,417 - UNITY Biotechnology Inc. 568,733 - Lexicon Pharmaceuticals Inc. 978,318 - Seres Therapeutics Inc. 57,903 - Cymabay Therapeutics Inc. 2,048,278 - CASI Pharmaceuticals Inc. 1,298,963 - CASI Pharmaceuticals Inc.	4,604
I Hookipa Pharma Inc. 372,890 CorMedix Inc. 625,748 N MGM Biopharmaceuticals Inc. 245,251 AcelRx Pharmaceuticals Inc. 2,142,380 Eloxx Pharmaceuticals Inc. 608,308 Marinus Pharmaceuticals Inc. 2,067,953 Catasys Inc. 271,875 Senseonics Holdings Inc. 4,827,947 InfuSystem Holdings Inc. 341,824 AMYRIS Inc. 160,945 InfuSystem Holdings Inc. 1,409,918 InfuSystem Holdings Inc. 1,409,918 Amyris Inc. 1,409,918 InfuSystem Holdings Inc. 542,733 Jounce Therapeutics Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutics Inc. 1,666,121 O'old therapeutics Inc. 1,002,310 Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 573,903 Protagonist Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,638,452	4,583
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NGM Biopharmaceuticals Inc. 245,251 A AcelRx Pharmaceuticals Inc. 2,142,380 Eloxx Pharmaceuticals Inc. 608,308 Marinus Pharmaceuticals Inc. 2,067,953 Catasys Inc. 271,875 Senseonics Holdings Inc. 4,827,947 Fulgent Genetics Inc. 341,824 XOMA Corp. 160,945 InfuSystem Holdings Inc. 511,238 Amyris Inc. 1,409,918 Riadimed Corp. 185,109 Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutics Inc. 1,689,440 Ocular Therapeutix Inc. 1,066,121 Ovid therapeutics Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rokwell Medical Inc. 1,298,963 Exicure Inc. 1,337,521	4,560 4,555
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Eloxx Pharmaceuticals Inc. 608,308 Marinus Pharmaceuticals Inc. 2,067,953 Catasys Inc. 271,875 Senseonics Holdings Inc. 4,827,947 Fulgent Genetics Inc. 341,824 XOMA Corp. 160,945 InfuSystem Holdings Inc. 511,238 Amyris Inc. 1,409,918 Radimed Corp. 185,109 Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutix Inc. 1,688,440 Ocular Therapeutix Inc. 1,066,121 Ovid therapeutics Inc. 1,002,310 Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Seres Therapeutics Inc. 1,175,813 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,397,521	4,520
⋅ Marinus Pharmaceuticals Inc. 2,067,953 ⋅ Catasys Inc. 271,875 ⋅ Senseonics Holdings Inc. 4,827,947 ⊧ Fulgent Genetics Inc. 341,824 ⋅ XOMA Corp. 160,945 ⊧ InfuSystem Holdings Inc. 511,238 ⋅ Amyris Inc. 1,409,918 ⋅ Radimed Corp. 185,109 ⋅ Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 ⋅ Agile Therapeutics Inc. 1,688,440 ⋅ Ovid therapeutix Inc. 1,066,121 ⋅ Ovid therapeutics Inc. 266,417 ⋅ UNITY Biotechnology Inc. 266,417 ⋅ Exicon Pharmaceuticals Inc. 978,318 ⋅ Seres Therapeutics Inc. 573,903 ⋅ Oynabay Therapeutics Inc. 573,903 ⋅ Cymabay Therapeutics Inc. 573,903 ⋅ CASI Pharmaceuticals Inc. 1,298,963 ⋅ Rockwell Medical Inc. 1,384,452 - Exicure Inc. 1,397,521	4,477
Catasys Inc. 271,875 Senseonics Holdings Inc. 4,827,947 Fulgent Genetics Inc. 341,824 XOMA Corp. 160,945 InfuSystem Holdings Inc. 511,238 Amyris Inc. 1,409,918 Isadimed Corp. 185,109 Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutics Inc. 1,689,440 Ocular Therapeutics Inc. 1,002,310 Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Seres Therapeutics Inc. 978,318 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 1,298,963 Cokwell Medical Inc. 1,638,462 Exicure Inc. 1,397,521	4,467
Senseonics Holdings Inc. 4,827,947 Fulgent Genetics Inc. 341,824 XOMA Corp. 160,945 InfuSystem Holdings Inc. 511,238 Amyris Inc. 1,409,918 IRadimed Corp. 185,109 Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutics Inc. 1,689,440 Ocular Therapeutix Inc. 1,002,310 Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Seres Therapeutics Inc. 1,175,813 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 573,903 CASI Pharmaceuticals Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,638,452 Exicure Inc. 1,337,521	4,434
Fulgent Genetics Inc. 341,824 ★ XOMA Corp. 160,945 InfuSystem Holdings Inc. 511,238 ♠ Amyris Inc. 1,409,918 i Radimed Corp. 185,109 ★ Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 ♠ Agile Therapeutics Inc. 1,689,440 ♠ Ocular Therapeutics Inc. 1,002,310 ♠ Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 ♠ Lexicon Pharmaceuticals Inc. 978,318 ♠ Seres Therapeutics Inc. 1,175,813 ♠ Protagonist Therapeutics Inc. 573,903 ♠ Cymabay Therapeutics Inc. 573,903 ♠ CASI Pharmaceuticals Inc. 1,298,963 ♠ Rockwell Medical Inc. 1,638,452 ♠ Exicure Inc. 1,397,521	4,422
InfuSystem Holdings Inc. 511,238 ↑ Amyris Inc. 1,409,918 IRadimed Corp. 185,109 ↑ Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 ↑ Agile Therapeutics Inc. 1,689,440 ↑ Ocular Therapeutix Inc. 1,006,121 ↑ Ovid therapeutics Inc. 1,002,310 ↑ Atreca Inc. 266,417 ↑ UNITY Biotechnology Inc. 568,733 ↑ Lexicon Pharmaceuticals Inc. 978,318 ↑ Seres Therapeutics Inc. 1,175,813 ↑ Protagonist Therapeutics Inc. 573,903 ↑ Cymabay Therapeutics Inc. 2,048,278 ↑ CASI Pharmaceuticals Inc. 1,298,963 ↑ Rockwell Medical Inc. 1,638,452 ↑ Exicure Inc. 1,397,521	4,410
*** Amyris Inc. 1,409,918 ** iRadimed Corp. 185,109 ** Zynex Inc. 542,733 * Jounce Therapeutics Inc. 487,199 * Agile Therapeutics Inc. 1,689,440 * Ocular Therapeutix Inc. 1,066,121 * Ovid therapeutics Inc. 1,002,310 * Atrecal Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318 * Seres Therapeutics Inc. 1,175,813 * Protagonist Therapeutics Inc. 573,903 * Cymabay Therapeutics Inc. 2,048,278 * CASI Pharmaceuticals Inc. 1,298,963 * Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,394
** iRadimed Corp. 185,109 ★ Zynex Inc. 542,733 * Jounce Therapeutics Inc. 487,199 * Agile Therapeutics Inc. 1,689,440 * Ocular Therapeutix Inc. 1,006,121 * Ovid therapeutics Inc. 1,002,310 * Atreca Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318 * Seres Therapeutics Inc. 1,175,813 * Protagonist Therapeutics Inc. 573,903 * Cymabay Therapeutics Inc. 2,048,278 * CASI Pharmaceuticals Inc. 1,298,963 * Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,361
Zynex Inc. 542,733 Jounce Therapeutics Inc. 487,199 Agile Therapeutics Inc. 1,689,440 Coular Therapeutix Inc. 1,066,121 Ovid therapeutics Inc. 1,002,310 Atreca Inc. 266,417 UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Seres Therapeutics Inc. 1,175,813 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,638,452 Exicure Inc. 1,397,521	4,357
★ Jounce Therapeutics Inc. 487,199 ★ Agile Therapeutics Inc. 1,689,440 ★ Ocular Therapeutix Inc. 1,066,121 ★ Ovid therapeutics Inc. 1,002,310 ★ Atreca Inc. 266,417 ★ UNITY Biotechnology Inc. 568,733 ★ Lexicon Pharmaceuticals Inc. 978,318 ★ Seres Therapeutics Inc. 1,175,813 ★ Protagonist Therapeutics Inc. 573,903 ★ Cymabay Therapeutics Inc. 2,048,278 ★ CASI Pharmaceuticals Inc. 1,298,963 ★ Rockwell Medical Inc. 1,638,452 ★ Exicure Inc. 1,397,521	4,328
** Agile Therapeutics Inc. 1,689,440 ** Ocular Therapeutix Inc. 1,066,121 * Ovid therapeutics Inc. 1,002,310 * Atreca Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318 * Seres Therapeutics Inc. 1,175,813 * Protagonist Therapeutics Inc. 573,903 * Cymabay Therapeutics Inc. 2,048,278 * CASI Pharmaceuticals Inc. 1,298,963 * Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,271
*** Ocular Therapeutix Inc. 1,066,121 ** Ovid therapeutics Inc. 1,002,310 * Atreca Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318 * Seres Therapeutics Inc. 1,175,813 * Protagonist Therapeutics Inc. 573,903 * Cymabay Therapeutics Inc. 2,048,278 * CASI Pharmaceuticals Inc. 1,298,963 * Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,253
. Ovid therapeutics Inc. 1,002,310 . Atreca Inc. 266,417 . UNITY Biotechnology Inc. 568,733 . Lexicon Pharmaceuticals Inc. 978,318 . Seres Therapeutics Inc. 1,175,813 . Protagonist Therapeutics Inc. 573,903 . Cymabay Therapeutics Inc. 2,048,278 . CASI Pharmaceuticals Inc. 1,298,963 . Rockwell Medical Inc. 1,638,452 . Exicure Inc. 1,397,521	4,224
* Atreca Inc. 266,417 * UNITY Biotechnology Inc. 568,733 * Lexicon Pharmaceuticals Inc. 978,318 * Seres Therapeutics Inc. 1,175,813 * Protagonist Therapeutics Inc. 573,903 * Cymabay Therapeutics Inc. 2,048,278 * CASI Pharmaceuticals Inc. 1,298,963 * Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,211
UNITY Biotechnology Inc. 568,733 Lexicon Pharmaceuticals Inc. 978,318 Seres Therapeutics Inc. 1,175,813 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,638,452 Exicure Inc. 1,397,521	4,160
 Lexicon Pharmaceuticals Inc. Seres Therapeutics Inc. Protagonist Therapeutics Inc. Cymabay Therapeutics Inc. CASI Pharmaceuticals Inc. Rockwell Medical Inc. Exicure Inc. 1,397,521 	4,121
Seres Therapeutics Inc. 1,175,813 Protagonist Therapeutics Inc. 573,903 Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,638,452 Exicure Inc. 1,397,521	4,101 4,060
 Protagonist Therapeutics Inc. Cymabay Therapeutics Inc. CASI Pharmaceuticals Inc. Rockwell Medical Inc. Exicure Inc. 573,903 2,048,278 1,298,963 1,638,452 1,397,521 	4,057
Cymabay Therapeutics Inc. 2,048,278 CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,638,452 Exicure Inc. 1,397,521	4,046
CASI Pharmaceuticals Inc. 1,298,963 Rockwell Medical Inc. 1,638,452 Exicure Inc. 1,397,521	4,015
* Rockwell Medical Inc. 1,638,452 * Exicure Inc. 1,397,521	4,014
* Exicure Inc. 1,397,521	3,998
* Aravive Inc. 200 000	3,997
AI AVIVE III. 288,008	3,937
* American Renal Associates Holdings Inc. 379,646	3,937
* FONAR Corp. 199,168	3,922
Harpoon Therapeutics Inc. 264,272	3,909
* Aldeyra Therapeutics Inc. 667,217	3,877
* Kiniksa Pharmaceuticals Ltd. Class A 348,492	3,854
*A Zynerba Pharmaceuticals Inc. 630,140	3,806
 Five Prime Therapeutics Inc. Akorn Inc. 824,351 2,492,697 	3,784
\cdot	3,739 3,691
*Anavex Life Sciences Corp. 1,425,049 * Castle Biosciences Inc. 107,186	3,684
*A Bioxcel Therapeutics Inc. 249,603	3,647
* Enzo Biochem Inc. 1,366,399	3,594
* Pulse Biosciences Inc. 262,310	3,518
* Exagen Inc. 137,795	3,500
* Repro-Med Systems Inc. 535,117	3,494
* Personalis Inc. 315,739	3,442
* Mustang Bio Inc. 808,613	3,299
* Dyadic International Inc. 621,809	3,221
* Genesis Healthcare Inc. 1,960,136	3,215
*^ CytoSorbents Corp. 832,151	3,204
* Chimerix Inc. 1,522,300	3,090

			Market Value
		Shares	(\$000)
*,^	Paratek Pharmaceuticals Inc.	766,225	3,088
*,^	Akero Therapeutics Inc.	139,079	3,087
*	TCR2 Therapeutics Inc.	215,242	3,074
*,^	Lineage Cell Therapeutics Inc. BioSig Technologies Inc.	3,430,046 514,013	3,053 3,043
*	Satsuma Pharmaceuticals Inc.	154,604	3,043
*,^	Galectin Therapeutics Inc.	1,051,163	3,006
*	Stereotaxis Inc.	563,138	2,979
*	Spero Therapeutics Inc.	307,402	2,956
*,^	EyePoint Pharmaceuticals Inc.	1,904,792	2,952
*,^	Fortress Biotech Inc.	1,134,317	2,915
*	Conformis Inc.	1,903,523	2,855
*	Otonomy Inc.	737,046	2,823
*	Acorda Therapeutics Inc.	1,366,942	2,789
*,^	Proteostasis Therapeutics Inc.	1,195,732	2,726
*,^	AVEO Pharmaceuticals Inc.	4,364,829	2,725
*,^	Catalyst Biosciences Inc.	398,149	2,711
*	Prevail Therapeutics Inc. Millendo Therapeutics Inc.	170,499 396,400	2,699 2,672
*	Harvard Bioscience Inc.	863,911	2,635
*,^	Venus Concept Inc.	557,175	2,619
*,^	Marker Therapeutics Inc.	904.972	2,606
*,^	DermTech Inc.	209,350	2,596
*,^	Savara Inc.	578,945	2,594
*	Sutro Biopharma Inc.	234,251	2,577
*,^	Sesen Bio Inc.	2,475,212	2,574
*,^	Novavax Inc.	643,291	2,560
*	PhaseBio Pharmaceuticals Inc.	412,403	2,520
*	Assertio Therapeutics Inc.	1,986,395	2,483
*,^	NantKwest Inc.	646,858	2,452
*,^	Viela Bio Inc.	87,933 740,505	2,387
*,^	Capital Senior Living Corp. La Jolla Pharmaceutical Co.	740,585 582,183	2,288 2,288
*,^	RAPT Therapeutics Inc.	82,673	2,283
*,^	Soliton Inc.	204,101	2,241
*,^	Trevena Inc.	2,656,331	2,234
*,^	Verastem Inc.	1,655,459	2,218
*,^	Solid Biosciences Inc.	489,748	2,179
*,^	Kala Pharmaceuticals Inc.	590,072	2,177
*,^	NewLink Genetics Corp.	859,970	2,176
*,^	BrainStorm Cell Therapeutics Inc.	499,658	2,139
*,^	Corvus Pharmaceuticals Inc.	382,848	2,083
*	Adamas Pharmaceuticals Inc.	549,413	2,082
*	Strongbridge Biopharma plc	994,459	2,078
*	Cerecor Inc. Chembio Diagnostics Inc.	383,569 447,516	2,067 2,041
*	Cyclerion Therapeutics Inc.	744,193	2,024
*,^	Ampio Pharmaceuticals Inc.	3,462,732	2,019
*,^	Moleculin Biotech Inc.	2,203,334	2,016
*	Applied Genetic Technologies Corp.	438,277	1,981
*,^	Tyme Technologies Inc.	1,410,436	1,975
*	Aguestive Therapeutics Inc.	339,183	1,974
*,^	SCYNEXIS Inc.	2,036,941	1,854
*	Selecta Biosciences Inc.	772,990	1,840
*	Orgenesis Inc.	390,018	1,817
*,^	Enochian Biosciences Inc.	351,591	1,765
*,^	Cidara Therapeutics Inc.	451,652	1,734
*	Oncocyte Corp.	766,650	1,725
*,^	Arbutus Biopharma Corp.	616,293	1,713
*	Neos Therapeutics Inc. Electromed Inc.	1,121,410 191,641	1,693 1,658
*	Menlo Therapeutics Inc.	353,454	1,640
*	Aptinyx Inc.	471,915	1,614
*	Clearside Biomedical Inc.	554,321	1,608
		33.,321	.,000

			Market Value
		Shares	(\$000)
*	Champions Oncology Inc.	189,449	1,578
*,^	Baudax Bio Inc. Catabasis Pharmaceuticals Inc.	227,917 263,608	1,577
*	Catabasis Pharmaceuticais inc. Celcuity Inc.	203,008 146,048	1,558 1,554
*,^	Eton Pharmaceuticals Inc.	213,277	1,534
*	Synlogic Inc.	586,414	1,513
	Psychemedics Corp.	165,302	1,513
*,^	Frequency Therapeutics Inc.	84,408	1,480
*	Infinity Pharmaceuticals Inc.	1,491,350	1,432
*	Cumberland Pharmaceuticals Inc.	275,632	1,420
*	Curis Inc.	822,614	1,398
*,^	Anixa Biosciences Inc.	424,878	1,394
*,^	Bellicum Pharmaceuticals Inc.	1,037,236	1,338
*	PAVmed Inc.	1,093,405	1,312
*,^	Aclaris Therapeutics Inc.	694,097	1,312
*	Neuronetics Inc.	290,135	1,303
*	Pro-Dex Inc. IRIDEX Corp.	72,849 563,826	1,279 1,263
*	Evofem Biosciences Inc.	203,820	1,263
*	MRI Interventions Inc.	260,350	1,250
*	Checkpoint Therapeutics Inc.	724,862	1,247
*	Aduro Biotech Inc.	1,032,336	1,218
*	LogicBio Therapeutics Inc.	167,462	1,206
*,^	Evelo Biosciences Inc.	287,124	1,166
*	CTI BioPharma Corp.	722,814	1,142
*,^	Zosano Pharma Corp.	745,534	1,133
*,^	Vermillion Inc.	1,379,576	1,117
*,^	Idera Pharmaceuticals Inc.	613,295	1,116
*,^	ElectroCore Inc.	700,682	1,114
*	Calyxt Inc.	157,904	1,107
*,^	Mirum Pharmaceuticals Inc.	44,378	1,088
*	Strata Skin Sciences Inc.	517,774	1,077
*,^	Quorum Health Corp.	1,125,183	1,076
*	Sensus Healthcare Inc. Avenue Therapeutics Inc.	297,376	1,053
*	Cabaletta Bio Inc.	109,407 74,221	1,050 1,037
*,^	T2 Biosystems Inc.	885,873	1,037
*,^	Genocea Biosciences Inc.	498,354	1,030
*	Soleno Therapeutics Inc.	350,339	1,030
*,^	Kaleido Biosciences Inc.	195,648	982
*,^	Sunesis Pharmaceuticals Inc.	2,860,014	966
*	Apollo Endosurgery Inc.	338,627	965
*	Novan Inc.	300,561	950
*	scPharmaceuticals Inc.	167,208	946
*	Liquidia Technologies Inc.	217,927	932
*,^	Organovo Holdings Inc.	2,598,783	924
_	Merrimack Pharmaceuticals Inc.	285,294	899
*	Kezar Life Sciences Inc.	223,678	897
*	Standard Diversified Inc.	60,649	889
*	Soligenix Inc. Opiant Pharmaceuticals Inc.	598,911 59,635	868 859
*,^	Oncternal Therapeutics Inc.	214,040	845
*	PLx Pharma Inc.	178,053	778
*,^	Arcadia Biosciences Inc.	141,438	775
*	Celldex Therapeutics Inc.	344,839	769
*	AgeX Therapeutics Inc.	415,268	756
*	AquaBounty Technologies Inc.	347,989	755
*	Celsion Corp.	437,596	748
*,^	VIVUS Inc.	271,618	739
*,^	resTORbio Inc.	491,365	732
*	Endologix Inc.	458,529	724
*,^	Milestone Scientific Inc.	519,552	722
*,^	Adamis Pharmaceuticals Corp.	1,029,133	721
*	Eyenovia Inc.	160,888	721

			Market Value
		Shares	(\$000)
*	Oyster Point Pharma Inc.	29,290	716
*	Altimmune Inc.	377,900	714
*,^	Cohbar Inc.	442,624	708
*	Equillium Inc. Allena Pharmaceuticals Inc.	203,300 245,176	687 669
*,^	Actinium Pharmaceuticals Inc.	3,033,390	660
*,^	HTG Molecular Diagnostics Inc.	936.812	658
*	aTyr Pharma Inc.	152,825	637
*	Neon Therapeutics Inc.	536,388	633
*	Bioanalytical Systems Inc.	126,596	627
*,^	NantHealth Inc.	604,166	622
*	Surface Oncology Inc.	323,119	607
*,^	Axcella Health Inc.	151,058	606
*,^	Vir Biotechnology Inc.	47,376	596
*,^	Vaccinex Inc.	120,430	584
*,^	Teligent Inc.	1,357,779	578
*,^	Galera Therapeutics Inc.	43,920	578
*,^	Ekso Bionics Holdings Inc.	1,398,803	547
*,^	Leap Therapeutics Inc. Alpine Immune Sciences Inc.	477,317	535
*	AzurRx BioPharma Inc.	139,028 490,181	534 510
*,^	PolarityTE Inc.	194,180	505
*	Aerpio Pharmaceuticals Inc.	802,614	500
*	Ideaya Biosciences Inc.	66,615	500
*	Zafgen Inc.	444.733	494
*,^	Second Sight Medical Products Inc.	656,944	487
*	IsoRay Inc.	766,512	479
*	Alimera Sciences Inc.	62,517	474
*	KemPharm Inc.	1,194,467	453
*,^	Cassava Sciences Inc.	86,716	451
*,^	Biolase Inc.	815,191	451
*,^	Citius Pharmaceuticals Inc.	435,356	444
*,^	Oragenics Inc.	844,227	442
*	Adial Pharmaceuticals Inc.	176,277	425
*,^	SELLAS Life Sciences Group Inc.	95,483	411
*,^	Spring Bank Pharmaceuticals Inc. Co-Diagnostics Inc.	255,362 438,601	403 393
*,^	Evoke Pharma Inc.	241,002	390
*	ContraFect Corp.	624,454	388
*	Caladrius Biosciences Inc.	153,833	386
*	Tela Bio Inc.	29,229	379
*,^	Conatus Pharmaceuticals Inc.	936,834	375
*	Xtant Medical Holdings Inc.	221,928	355
*	AdaptHealth Corp.	32,212	354
*	ImmuCell Corp.	66,289	341
*	Biomerica Inc.	113,198	336
*	Tocagen Inc.	584,325	312
*	DiaMedica Therapeutics Inc.	63,532	308
*,^	Helius Medical Technologies Inc. Class A	314,754	305
*,^	Unum Therapeutics Inc.	400,874	289
*,^	Acer Therapeutics Inc. Trovagene Inc.	70,268 216,695	282 269
*	TFF Pharmaceuticals Inc.	49,161	263
*,^	Obalon Therapeutics Inc.	137,023	260
*,^	Heat Biologics Inc.	534,924	254
*	Bellerophon Therapeutics Inc.	681,990	238
*	Sophiris Bio Inc.	618,362	229
*	Aptevo Therapeutics Inc.	335,112	219
*,^	vTv Therapeutics Inc. Class A	116,755	198
*	Miragen Therapeutics Inc.	292,449	140
*,^	Navidea Biopharmaceuticals Inc.	109,561	138
*	Cocrystal Pharma Inc.	268,535	133
*,^	Outlook Therapeutics Inc.	223,704	132
*	Trevi Therapeutics Inc.	32,341	121

		Shares	Market Value
_	AT TI C I		(\$000)
*	Aileron Therapeutics Inc. Retractable Technologies Inc.	199,290 65,800	114 99
*	Zomedica Pharmaceuticals Corp.	294,779	98
*	American Shared Hospital Services	36,338	89
*	RA Medical Systems Inc.	65,700	74
*,^	OncoSec Medical Inc.	38,594	70
*	Aevi Genomic Medicine Inc.	425,218	62
*,^	Imac Holdings Inc.	38,906	58
*	PDS Biotechnology Corp.	20,105	53
*	Inmune Bio Inc.	8,450	49
*	Daxor Corp.	5,067	48
	Five Star Senior Living Inc.	9,610	36
^,§ *,^	Synergy Pharmaceuticals Inc. Predictive Oncology Inc.	5,148,145 11,228	33 29
*	Dynatronics Corp.	32,976	29 27
*	Entasis Therapeutics Holdings Inc.	5,429	27
*	Brickell Biotech Inc.	15,297	23
*,^,§		8,933	18
*,^	Onconova Therapeutics Inc.	33,111	13
*	Cleveland BioLabs Inc.	19,875	12
*	NanoViricides Inc.	967	2
*	Galena Biopharma Inc Warrants Exp. 03/18/2020	157,500 _	
Ind	lustrials (13.1%)		116,863,672
	Boeing Co.	15,062,314	4,906,699
	Accenture plc Class A	17,886,881	3,766,441
*	United Technologies Corp. PayPal Holdings Inc.	24,306,428 33,082,634	3,640,131 3,578,549
	Honeywell International Inc.	20,133,795	3,563,682
	Union Pacific Corp.	19,557,102	3,535,728
	3M Co.	16,202,829	2,858,503
	General Electric Co.	246,031,669	2,745,713
	Danaher Corp.	17,624,443	2,705,000
	Lockheed Martin Corp.	6,750,918	2,628,672
	Fidelity National Information Services Inc.	17,313,071	2,408,075
	United Parcel Service Inc. Class B	19,729,577	2,309,544
	Caterpillar Inc.	15,569,314	2,299,276
*	Fisery Inc.	16,267,820	1,881,048
	Automatic Data Processing Inc. Raytheon Co.	10,972,753	1,870,854 1,723,506
	Global Payments Inc.	7,843,388 8,460,242	1,544,502
	Deere & Co.	8,870,796	1,536,954
	CSX Corp.	20,940,117	1,515,227
	Northrop Grumman Corp.	4,274,261	1,470,218
	Illinois Tool Works Inc.	8,147,437	1,463,524
	Norfolk Southern Corp.	7,347,299	1,426,331
	Sherwin-Williams Co.	2,337,827	1,364,216
	Waste Management Inc.	11,939,971	1,360,679
	Emerson Electric Co.	17,160,626	1,308,669
	General Dynamics Corp.	6,914,439	1,219,361
	Eaton Corp. plc	11,650,429	1,103,529
	Roper Technologies Inc.	2,925,810	1,036,410
	FedEx Corp. Amphenol Corp. Class A	6,620,144 8,363,400	1,001,032 905,171
	TE Connectivity Ltd.	9,429,331	905,171
	Ingersoll-Rand plc	6,753,674	897,698
	Johnson Controls International plc	21,759,805	885,842
	TransDigm Group Inc.	1,432,914	802,432
	Paychex Inc.	9,086,455	772,894
	Cummins Inc.	4,315,013	772,215
	PACCAR Inc.	9,741,392	770,544
	Parker-Hannifin Corp.	3,613,679	743,767
	Agilent Technologies Inc.	8,716,091	743,570
	Willis Towers Watson plc	3,629,383	732,918

			Market
		Shares	Value (\$000)
Stanley Black & De	cker Inc	4,269,928	707,698
* FleetCor Technolog		2,442,853	702,858
Verisk Analytics Ind		4,604,338	687,612
Waste Connections	s Inc.	7,427,122	674,308
Cintas Corp.		2,474,991	665,971
Rockwell Automati	on Inc.	3,257,536	660,205
AMETEK Inc.		6,411,498	639,483
* CoStar Group Inc.		1,031,229	616,984
Fortive Corp.		8,037,182	613,960
 Square Inc. Ball Corp. 		9,773,462 9,232,916	611,428 597,093
Fastenal Co.		16,105,669	595,104
* Mettler-Toledo Inte	ernational Inc	686,153	544,311
* Keysight Technolog		5,273,315	541,200
Vulcan Materials C		3,718,789	535,468
Republic Services I		5,876,096	526,674
Martin Marietta Ma	iterials Inc.	1,755,087	490,793
Dover Corp.		4,089,537	471,360
TransUnion		5,301,130	453,830
WW Grainger Inc.		1,291,005	437,031
Kansas City Southe	rn	2,791,815	427,594
* Waters Corp.		1,813,544	423,735
Xylem Inc.		5,071,313	399,569
Wabtec Corp.		5,124,682	398,700
Broadridge Financia * Zebra Technologies		3,211,735 1,520,344	396,778 388,357
Masco Corp.	, σοιρ.	8,069,900	387,275
Old Dominion Freig	aht Line Inc	2,024,609	384,230
	ional of Washington Inc.	4,794,618	374,076
IDEX Corp.	ional of Tracining to Final	2,136,048	367,400
* Teledyne Technolo	gies Inc.	1,025,602	355,412
 United Rentals Inc. 		2,117,638	353,158
Arconic Inc.		10,989,080	338,134
Jacobs Engineering	g Group Inc.	3,755,321	337,340
Allegion plc		2,620,716	326,384
Jack Henry & Asso	ciates Inc.	2,172,778	316,509
Westrock Co.		7,254,159	311,276
Packaging Corp. of CH Robinson Work		2,663,578 3,812,881	298,294 298,167
* Trimble Inc.	awide inc.	7,034,202	293,256
* Fair Isaac Corp.		7,034,202	290,710
Huntington Ingalls	Industries Inc	1,147,843	287,971
Textron Inc.	Trade tries	6,437,139	287,096
JB Hunt Transport	Services Inc.	2,404,710	280,822
	n Holding Corp. Class A	3,927,748	279,381
 Crown Holdings Inc 	2.	3,815,024	276,742
HEICO Corp. Class	A	3,049,670	273,037
Snap-on Inc.		1,548,376	262,295
Carlisle Cos. Inc.		1,592,575	257,742
Cognex Corp.		4,570,768	256,146
* WEX Inc.		1,215,623	254,624
Lennox Internation Universal Display C		1,028,529	250,930
Graco Inc.	σιρ.	1,191,065 4,689,227	245,443 243,840
* Sensata Technolog	ies Holding pla	4,481,613	241,424
Toro Co.	les Freiding pro	2,986,390	237,926
Nordson Corp.		1,457,766	237,383
* Euronet Worldwide	e Inc.	1,450,816	228,591
Hubbell Inc. Class		1,527,356	225,774
Genpact Ltd.		5,344,180	225,364
Pentair plc		4,751,969	217,973
	Holdings Inc. Class A	2,911,781	212,211
AptarGroup Inc.		1,790,394	207,005
* XPO Logistics Inc.		2,593,353	206,690

			Market
		Shares	Value (\$000)
	Developer Co. Inc.		
	Donaldson Co. Inc. Owens Corning	3,563,105 3,055,871	205,306 198,998
	FLIR Systems Inc.	3,784,381	197,053
	Robert Half International Inc.	3,108,925	196,329
	Woodward Inc.	1,652,105	195,675
*	Arrow Electronics Inc.	2,304,652	195,296
	Xerox Holdings Corp.	5,176,930	190,873
*	HD Supply Holdings Inc.	4,674,690	188,016
	AO Smith Corp.	3,865,252	184,141
	Flowserve Corp.	3,683,180	183,312
*	AECOM	4,226,973	182,309
	ITT Inc.	2,463,209	182,056
	Oshkosh Corp.	1,917,703	181,511
*	Generac Holdings Inc.	1,766,911	177,734
*	Berry Global Group Inc.	3,722,405	176,777
	Hexcel Corp.	2,376,694	174,235
	Sealed Air Corp.	4,366,023	173,899
	Sonoco Products Co.	2,806,392	173,211
	Curtiss-Wright Corp.	1,197,147	168,666
	BWX Technologies Inc. Lincoln Electric Holdings Inc.	2,698,961 1,731,165	167,551 167,456
	MDU Resources Group Inc.	5,590,152	166,083
	Watsco Inc.	914,183	164,690
*	Stericycle Inc.	2,569,815	163,980
	Quanta Services Inc.	3,987,345	162,325
	ManpowerGroup Inc.	1,665,334	161,704
	Jabil Inc.	3,862,331	159,630
	Acuity Brands Inc.	1,117,985	154,282
	Allison Transmission Holdings Inc.	3,187,105	154,001
	National Instruments Corp.	3,525,962	149,289
*	Trex Co. Inc.	1,647,184	148,049
*	Kirby Corp.	1,607,908	143,956
	Air Lease Corp. Class A	3,002,279	142,668
*	IPG Photonics Corp.	975,668	141,394
	Alliance Data Systems Corp.	1,230,157	138,024
*	Gardner Denver Holdings Inc.	3,731,667	136,878
	Graphic Packaging Holding Co.	8,185,519	136,289
	EMCOR Group Inc. MAXIMUS Inc.	1,568,399 1,792,574	135,353 133,350
	Tetra Tech Inc.	1,792,374	132,602
	AGCO Corp.	1,707,644	131,916
	Landstar System Inc.	1,114,973	126,962
	Armstrong World Industries Inc.	1,348,488	126,717
	Brink's Co.	1,394,761	126,477
	MSA Safety Inc.	987,225	124,746
	Littelfuse Inc.	649,297	124,211
	Crane Co.	1,422,858	122,906
*	Axon Enterprise Inc.	1,665,123	122,020
*	Clean Harbors Inc.	1,413,113	121,174
	KBR Inc.	3,957,648	120,708
	Knight-Swift Transportation Holdings Inc.	3,361,921	120,491
	Avnet Inc.	2,836,229	120,370
*	Paylocity Holding Corp.	980,865	118,508
*	FTI Consulting Inc.	1,049,343	116,120
*	Coherent Inc.	676,200	112,486
*	MasTec Inc.	1,722,309	110,503
	nVent Electric plc	4,285,096	109,613
*	Timken Co.	1,928,445	108,591
	Mercury Systems Inc. Eagle Materials Inc.	1,564,837 1,177,535	108,146 106,755
*	RBC Bearings Inc.	672,541	106,755
*	SiteOne Landscape Supply Inc.	1,159,082	105,071
*	ASGN Inc.	1,418,284	100,656
	Exponent Inc.	1,452,514	100,238
		1,102,014	. 50,200

			Market
		Shares	Value (\$000)
	John Bean Technologies Corp.	889,352	100,194
*	TopBuild Corp.	966,941	99,672
	Regal Beloit Corp.	1,158,228	99,156
*	CoreLogic Inc.	2,266,670	99,076
	Louisiana-Pacific Corp.	3,322,191	98,569
	MSC Industrial Direct Co. Inc. Class A	1,254,207	98,418
*	Rexnord Corp.	2,845,848	92,832
	Insperity Inc.	1,069,506	92,020
	Simpson Manufacturing Co. Inc.	1,131,147	90,752
*	Colfax Corp.	2,479,890	90,218
*	Aerojet Rocketdyne Holdings Inc.	1,974,309	90,147
	EnerSys Valmont Industries Inc.	1,188,605 593,357	88,943 88,873
*	Itron Inc.	1,054,312	88,509
	Macquarie Infrastructure Corp.	2,051,792	87,899
	UniFirst Corp.	434,798	87,821
	Tradeweb Markets Inc. Class A	1,864,429	86,416
	Kennametal Inc.	2,340,709	86,349
	Barnes Group Inc.	1,369,361	84,846
*	Novanta Inc.	946,731	83,729
*	Builders FirstSource Inc.	3,240,867	82,350
	GATX Corp.	990,452	82,059
*	AMN Healthcare Services Inc.	1,311,941	81,747
	Ryder System Inc.	1,502,380	81,594
*	II-VI Inc.	2,388,467	80,420
	Vishay Intertechnology Inc.	3,749,783	79,833
	Watts Water Technologies Inc. Class A	787,259	78,537
	Moog Inc. Class A Universal Forest Products Inc.	917,865	78,321 78,111
	Universal Forest Products Inc. Brady Corp. Class A	1,637,539 1,332,413	78,111 76,294
	World Fuel Services Corp.	1,744,961	76,294 75,766
*	Summit Materials Inc. Class A	3,142,216	75,700 75,099
*	Anixter International Inc.	808,620	74,474
	Fluor Corp.	3,927,579	74,153
*	Integer Holdings Corp.	920,930	74,070
*	Proto Labs Inc.	726,734	73,800
*	Allegheny Technologies Inc.	3,567,445	73,703
	Applied Industrial Technologies Inc.	1,099,940	73,355
	ABM Industries Inc.	1,886,672	71,146
	Belden Inc.	1,282,992	70,565
*	WESCO International Inc.	1,170,038	69,489
*	Saia Inc.	727,153	67,712
*	Fabrinet	1,040,350	67,456 67,317
	TriNet Group Inc. Silgan Holdings Inc.	1,189,133 2,160,342	67,143
	Korn Ferry	1,569,426	66,544
	Altra Industrial Motion Corp.	1,831,025	66,301
	Albany International Corp. Class A	866,534	65,787
	Franklin Electric Co. Inc.	1,139,055	65,291
*	Rogers Corp.	521,076	64,994
	ESCO Technologies Inc.	701,344	64,874
*	ExlService Holdings Inc.	928,943	64,524
*	Sanmina Corp.	1,880,642	64,393
*	Advanced Disposal Services Inc.	1,956,788	64,320
*	Plexus Corp.	824,961	63,473
*	SPX Corp.	1,238,553	63,018
*	Beacon Roofing Supply Inc.	1,939,177	62,015
	ManTech International Corp. Class A	758,680	60,603
	HEICO Corp.	526,014	60,044
*	Otter Tail Corp.	1,166,281	59,819
	Cimpress plc Deluxe Corp.	474,612 1,182,578	59,692 59,034
*	SPX FLOW Inc.	1,102,376	58,774
	AAON Inc.	1,177,065	58,159
		1,177,000	30,100

			Market Value
		Shares	(\$000)
	Trinity Industries Inc.	2,622,573	58,090
*	Casella Waste Systems Inc. Class A	1,256,851	57,853
	Triton International Ltd.	1,438,689	57,835
	Forward Air Corp.	810,171	56,671
	Terex Corp. EVERTEC Inc.	1,902,876 1,651,042	56,668 56,201
	Cubic Corp.	881,234	56,201
	Federal Signal Corp.	1,697,709	54,751
*	BMC Stock Holdings Inc.	1,895,128	54,371
*	Knowles Corp.	2,552,817	53,992
*	Atkore International Group Inc.	1,325,534	53,631
	Badger Meter Inc.	825,839	53,622
	Mueller Water Products Inc. Class A	4,442,882	53,226
*	Ambarella Inc.	874,434	52,956
	O-I Glass Inc.	4,424,303	52,782
	McGrath RentCorp	685,341	52,456
	Kaman Corp.	785,414	51,774
*	Masonite International Corp.	704,642	50,882
*	Kratos Defense & Security Solutions Inc.	2,819,400	50,777
*,^	Harsco Corp. Verra Mobility Corp. Class A	2,183,641	50,246 50,109
,	Comfort Systems USA Inc.	3,581,802 1,004,687	50,109
	Covanta Holding Corp.	3,371,015	50,064
	Advanced Drainage Systems Inc.	1,256,226	48,792
*	OSI Systems Inc.	480.919	48.448
	Matson Inc.	1,177,568	48,045
	Mueller Industries Inc.	1,509,869	47,938
	Aircastle Ltd.	1,474,038	47,184
	Werner Enterprises Inc.	1,291,427	46,995
	Mobile Mini Inc.	1,237,481	46,913
*	Hub Group Inc. Class A	912,371	46,796
	ICF International Inc.	506,935	46,445
*	Gibraltar Industries Inc.	916,853	46,246
*	Cardtronics plc Class A	1,020,637	45,571
-	Huron Consulting Group Inc.	653,393	44,901
	Actuant Corp. Class A AAR Corp.	1,694,688 967,549	44,113 43,636
*	JELD-WEN Holding Inc.	1,825,759	42,741
	Rush Enterprises Inc. Class A	918,626	42,716
	Greif Inc. Class A	934,534	41,306
*	Resideo Technologies Inc.	3,447,005	41,123
	Boise Cascade Co.	1,122,893	41,019
*	Navistar International Corp.	1,412,286	40,872
*	TTM Technologies Inc.	2,681,516	40,357
*	Installed Building Products Inc.	585,725	40,339
*	Dycom Industries Inc.	854,031	40,268
	Methode Electronics Inc.	1,012,689	39,849
	Alamo Group Inc.	315,356	39,593
*	Sykes Enterprises Inc.	1,070,293	39,590
	KEMET Corp. US Ecology Inc.	1,457,096 679,515	39,414 39,351
*	TriMas Corp.	1,252,470	39,340
*	Pluralsight Inc. Class A	2,264,398	38,970
	EnPro Industries Inc.	579,749	38,774
	Helios Technologies Inc.	834,935	38,599
*	CBIZ Inc.	1,424,224	38,397
*	AeroVironment Inc.	618,412	38,181
*	Air Transport Services Group Inc.	1,604,411	37,639
	Tennant Co.	481,117	37,489
	Granite Construction Inc.	1,344,763	37,210
*	Inovalon Holdings Inc. Class A	1,973,332	37,138
*	Cardlytics Inc.	583,879	36,703
*	Benchmark Electronics Inc.	1,053,585	36,201
-	Continental Building Products Inc.	987,208	35,964

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* Gates Industrial Corp. plc 1,234,376 16,985		Hyster-Yale Materials Handling Inc.		
* Vectrus Inc. 328,846 16,857	*	Gates Industrial Corp. plc	1,234,376	16,985
	*	Vectrus Inc.	328,846	16,857

Heldrick & Struggles International Inc.				Market
Heistick & Stragole International Inc.				Value
*** CyoPort Inc. 1,011,640 16,662 Spartan Motoros Inc. 910,040 16,464 Cuames Building Products Corp. 923,382 15,857 Ducommuni Inclaing Brands Inc. 91,810 16,824 ***Green'Styll Edical A 11,827 11,827 ***Green'Styll Edical A 11,827,11 14,844 Eniel Inc. 678,988 11,5076 Eniel Inc. 678,988 14,656 Echol Global Logistics Inc. 450,114 14,341 *** Haringse-Crystal Clean Inc. 450,104 14,200 *** Repay Hotings Corp. 958,843 14,431 *** Repay Hotings Corp. 958,843 14,047 *** Wh Gilloth Inc. 20,838 14,447 *** Wh Gilloth Inc. 20,838 13,144 *** Repay Hotings Corp. 988,843 14,047 *** Wh Gilloth Inc. 20,838 13,144 *** Wh Gilloth Inc. 20,838 13,144 *** Inc. 881,695 13,174 *** Inc. 824,899 13,174 *** Cro				
Spiratar Micros Inc.	* ^			
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Park-Ohio Holdings Corp. 228,966 7,705 Landec Corp. 679,061 7,680 RR Donnelley & Sons Co. 1,908,393 7,538 InnerWorkings Inc. 1,340,335 7,385 Mistras Group Inc. 512,655 7,316 Daktronics Inc. 1,196,773 7,288 Advanced Emissions Solutions Inc. 692,063 7,267 Ranpak Holdings Corp. 881,479 7,184 Lawson Products Inc. 136,932 7,134 Eagle Bulk Shipping Inc. 1,549,972 7,130 Forterra Inc. 595,526 6,884				
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* Mistras Group Inc. 512,655 7,316 Daktronics Inc. 1,196,773 7,288 ^ Advanced Emissions Solutions Inc. 692,063 7,267 * Ranpak Holdings Corp. 881,479 7,184 * Lawson Products Inc. 136,932 7,134 * Eagle Bulk Shipping Inc. 1,549,972 7,130 * Forterra Inc. 595,526 6,884	*			
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^ Advanced Emissions Solutions Inc. 692,063 7,267 * Ranpak Holdings Corp. 881,479 7,184 * Lawson Products Inc. 136,932 7,134 * Eagle Bulk Shipping Inc. 1,549,972 7,130 * Forterra Inc. 595,526 6,884				
* Ranpak Holdings Corp. 881,479 7,184 * Lawson Products Inc. 136,932 7,134 * Eagle Bulk Shipping Inc. 1,549,972 7,130 * Forterra Inc. 595,526 6,884	^			
Lawson Products Inc. 136,932 7,134 Eagle Bulk Shipping Inc. 1,549,972 7,130 Forterra Inc. 595,526 6,884				
*A Eagle Bulk Shipping Inc. 1,549,972 7,130 * Forterra Inc. 595,526 6,884	*			
* Forterra Inc. 595,526 6,884	*,^			
* CECO Environmental Corp. 897,446 6,874	*			
	*	CECO Environmental Corp.	897,446	6,874

			Market Value
		Shares	(\$000)
*	Iteris Inc.	1,352,725	6,750
	BG Staffing Inc. Luna Innovations Inc.	291,465	6,380
*	Era Group Inc.	873,060 612,810	6,365 6,232
*	LB Foster Co. Class A	316,915	6,142
*,^	Paysign Inc.	602,949	6,120
*	Acacia Research Corp.	2,283,057	6,073
*	ShotSpotter Inc.	236,445	6,029
	Graham Corp.	266,330	5,827
*	DHI Group Inc.	1,906,626	5,739
*	Willis Lease Finance Corp.	97,208	5,727
*	Radiant Logistics Inc.	1,027,749	5,725
	Global Water Resources Inc.	433,201	5,697
*	Select Interior Concepts Inc. Class A	632,053	5,682
*	GP Strategies Corp.	419,902	5,555
*	IES Holdings Inc.	212,930	5,464
	Overseas Shipholding Group Inc. Class A	2,354,690	5,416
-	Universal Technical Institute Inc. Preformed Line Products Co.	690,275 87.151	5,322 5,260
	LSI Industries Inc.	87,151 848,427	5,260 5,133
	Eastern Co.	166,029	5,069
*,^	Workhorse Group Inc.	1,634,280	4,968
	NACCO Industries Inc. Class A	106,061	4,967
*	Gencor Industries Inc.	419,044	4,890
*	Covenant Transportation Group Inc. Class A	364,019	4,705
*	Concrete Pumping Holdings Inc.	857,449	4,690
*	Aspen Aerogels Inc.	602,795	4,678
*,^	BlueLinx Holdings Inc.	321,145	4,576
*	Intevac Inc.	637,977	4,504
	Bel Fuse Inc. Class B	214,012	4,387
*,2	Perma-Pipe International Holdings Inc.	465,028	4,362
*	IntriCon Corp.	237,882	4,282
*	United States Lime & Minerals Inc.	47,177	4,260
*	OptimizeRx Corp.	412,615	4,238
*	Target Hospitality Corp. ServiceSource International Inc.	841,041 2,510,464	4,205 4,192
*	PRGX Global Inc.	837.093	4,118
*	Orion Group Holdings Inc.	781,265	4,055
*	Twin Disc Inc.	358,205	3,947
*	CyberOptics Corp.	213,328	3,921
	Universal Logistics Holdings Inc.	205,109	3,889
*	Information Services Group Inc.	1,484,288	3,755
*	Daseke Inc.	1,166,261	3,685
*	General Finance Corp.	329,977	3,653
*	Orion Energy Systems Inc.	1,024,668	3,433
*	Babcock & Wilcox Enterprises Inc.	918,791	3,344
*	PAM Transportation Services Inc.	56,554	3,264
*	StarTek Inc.	400,479	3,196
*	Quad/Graphics Inc. Ultralife Corp.	683,715 430,397	3,193 3,181
*	Manitex International Inc.	512,122	3,161
*,^	Turtle Beach Corp.	315,828	2,985
*	CPI Aerostructures Inc.	436,504	2,938
*	Goldfield Corp.	812,034	2,883
*	Hill International Inc.	901,699	2,849
*	US Xpress Enterprises Inc. Class A	536,547	2,699
*,^	EVI Industries Inc.	98,274	2,657
*,^	YRC Worldwide Inc.	1,017,816	2,595
*,^	Asure Software Inc.	316,621	2,590
*	Armstrong Flooring Inc.	582,389	2,487
*,^	Research Frontiers Inc.	808,942	2,435
*,^	ExOne Co.	324,278	2,419
*	Frequency Electronics Inc.	192,502	1,965
*	Horizon Global Corp.	556,734	1,943

			Market Value
_		Shares	(\$000)
*	Perma-Fix Environmental Services	211,854	1,928
*	Houston Wire & Cable Co.	433,061	1,910
	Mayville Engineering Co. Inc.	188,878	1,772
*,^	MicroVision Inc.	2,382,933	1,716 1,708
*	IEC Electronics Corp. Vertex Energy Inc.	187,870 1,091,322	1,708
	RF Industries Ltd.	245,831	1,662
	Richardson Electronics Ltd.	294,196	1,656
*,^	Wrap Technologies Inc.	248,688	1,589
*,^	Coda Octopus Group Inc.	183,468	1,536
*	Sharps Compliance Corp.	345,533	1,458
*	Patriot Transportation Holding Inc.	73,583	1,433
*	Volt Information Sciences Inc.	572,256	1,419
*	ARC Document Solutions Inc.	997,830	1,387
*	PFSweb Inc.	350,145	1,338
*,^	Energous Corp.	704,229	1,246
*	Nesco Holdings Inc.	298,528	1,227
*	USA Truck Inc.	139,872	1,042
*,^	Aqua Metals Inc.	1,348,801	1,019
*	Alpha Pro Tech Ltd.	293,929	1,008
*	Issuer Direct Corp.	81,722	955
*	DLH Holdings Corp.	210,584	882
	Greif Inc. Class B	16,527	856
*,^	Hudson Technologies Inc.	872,556	853
*	Innovative Solutions & Support Inc.	137,843	805
	Espey Manufacturing & Electronics Corp.	36,520	789
*	Perceptron Inc.	139,462	767
*,^	CUI Global Inc.	688,520	757
	Hudson Global Inc.	63,373	757
*	MTBC Inc.	177,257	720
	Charah Solutions Inc.	286,337	699
	Air T Inc. Broadwind Energy Inc.	32,804 380,668	661 632
*	HireQuest Inc.	88,206	625
*	Huttig Building Products Inc.	400,145	616
*,^	Verb Technology Co. Inc.	383,334	594
*	FreightCar America Inc.	276,496	572
*	LGL Group Inc.	37,858	568
*	Limbach Holdings Inc.	149,531	565
	Ecology and Environment Inc.	36,249	562
*	SIFCO Industries Inc.	138,297	546
*,^	Odyssey Marine Exploration Inc.	167,947	536
*,^	Capstone Turbine Corp.	164,075	502
*	Steel Connect Inc.	322,523	471
	AMCON Distributing Co.	6,102	439
*	Wireless Telecom Group Inc.	305,882	437
*	Ballantyne Strong Inc.	124,748	404
*,^	Applied DNA Sciences Inc.	88,084	369
	Rush Enterprises Inc. Class B	7,769	355
*	Image Sensing Systems Inc.	79,211	355
*	eMagin Corp.	915,968	315
*	Tecogen Inc.	145,349	308
*	ALJ Regional Holdings Inc.	266,005	306
*,^	Boxlight Corp. Class A	268,979	299
	Chicago Rivet & Machine Co.	11,238	290
*	Lightbridge Corp.	59,325	267
*	Jewett-Cameron Trading Co. Ltd.	32,900	254
*	Amcor plc	23,377	253
*	Usio Inc.	142,603	222
*	LightPath Technologies Inc. Class A	292,810	212
*	Rubicon Technology Inc. Pioneer Power Solutions Inc.	25,149 90,658	209 206
*	Taylor Devices Inc.	90,658	206 194
*	ClearSign Combustion Corp.	240,083	183
	Clearaigh Combustion Corp.	240,083	103

			Market Value
		Shares	(\$000)
*	Fuel Tech Inc.	189,010	176
*	ENGlobal Corp.	172,651	169
*,^	Digital Ally Inc.	151,478	155
*	Air Industries Group	52,742	121
	Document Security Systems Inc.	263,284	79
*	Continental Materials Corp. Marathon Patent Group Inc.	9,241 72,661	73 64
*	Quest Resource Holding Corp.	72,001 25,955	57
*	Hoth Therapeutics Inc.	8,642	53
	Servotronics Inc.	5,014	50
	Bel Fuse Inc. Class A	2,976	48
*	Summit Wireless Technologies Inc.	67,677	41
*	Sypris Solutions Inc.	35,375	28
*	AeroCentury Corp.	3,579	16
*	Polar Power Inc.	5,108	12
*	Air T Inc. Warrants Exp. 06/07/2020	90,675	5
*,§	Patriot National Inc.	129,819	3
*	Electro-Sensors Inc.	200	1
*	Dorian LPG Ltd.	20 _	
Oil	& Gas (4.0%)		117,584,949
	Exxon Mobil Corp.	119,196,797	8,317,553
	Chevron Corp.	53,266,865	6,419,190
	ConocoPhillips	30,924,238	2,011,003
	Schlumberger Ltd.	38,993,015	1,567,519
	Phillips 66	12,514,996	1,394,296
	EOG Resources Inc. Kinder Morgan Inc.	16,375,183 54,188,472	1,371,585 1,147,170
	Marathon Petroleum Corp.	18,302,057	1,102,699
	Valero Energy Corp.	11,574,788	1,083,979
	Occidental Petroleum Corp.	25,183,612	1,037,817
	ONEOK Inc.	11,628,292	879,913
	Williams Cos. Inc.	34,141,403	809,834
	Pioneer Natural Resources Co.	4,673,247	707,389
	Halliburton Co.	23,485,795	574,697
	Hess Corp.	7,712,456	515,269
	Concho Resources Inc.	5,665,510	496,129
	Baker Hughes a GE Co. Class A	18,307,207	469,214
	Diamondback Energy Inc.	4,528,562	420,522
*	Cheniere Energy Inc.	6,464,517	394,788
	Noble Energy Inc.	13,471,568	334,634
	Marathon Oil Corp.	22,495,157	305,484
	National Oilwell Varco Inc. Apache Corp.	10,906,698 10,605,355	273,213 271,391
	Devon Energy Corp.	10,302,264	267,550
	Targa Resources Corp.	6,551,333	267,491
	HollyFrontier Corp.	4,097,535	207,786
	Cabot Oil & Gas Corp.	11,508,217	200,358
*	WPX Energy Inc.	11,729,350	161,161
	Cimarex Energy Co.	2,868,393	150,562
	Parsley Energy Inc. Class A	7,534,988	142,487
	Helmerich & Payne Inc.	2,887,757	131,191
*	First Solar Inc.	2,083,040	116,567
	Murphy Oil Corp.	4,219,857	113,092
*	Transocean Ltd.	16,376,614	112,671
	PBF Energy Inc. Class A	2,866,367	89,918
	EQT Corp.	7,208,083	78,568 77,170
	Equitrans Midstream Corp.	5,776,873	77,179
*	Apergy Corp.	2,206,910	74,549
	Continental Resources Inc.	2,124,498 2,001,139	72,870 70,116
*	Delek US Holdings Inc. Chart Industries Inc.	2,091,128 1,012,79 <i>4</i>	70,116 68,354
*,^	Enphase Energy Inc.	1,012,794 2,419,116	63,212
,	Arcosa Inc.	1,370,728	61,066
	, 11000a 11101	1,070,720	01,000

		Market Value
	Shares	(\$000)
^ Antero Midstream Corp.	7,787,074	59,104
* Matador Resources Co.	3,148,940	56,586
Patterson-UTI Energy Inc.	5,277,085	55,409
Callon Petroleum Co.Dril-Quip Inc.	10,996,753 1,026,848	53,114 48,169
Core Laboratories NV	1,026,848	48,169
Cactus Inc. Class A	1,340,036	45,990
* PDC Energy Inc.	1.747.549	45,733
*^ Chesapeake Energy Corp.	55,025,332	45,429
Archrock Inc.	4,268,890	42,860
* Oceaneering International Inc.	2,818,943	42,030
 Magnolia Oil & Gas Corp. Class A 	3,251,616	40,905
* Helix Energy Solutions Group Inc.	4,039,251	38,898
* Southwestern Energy Co.	15,347,255	37,140
*A Valaris plc Class A	5,539,692	36,340
SM Energy Co.	3,165,498	35,580
INOVVIIIC.	3,112,337	34,983
CVR Energy Inc. * CNX Resources Corp.	853,356 3.680.669	34,501 32,574
* MRC Global Inc.	2.272.136	30,992
QEP Resources Inc.	6,731,320	30,291
NexTier Oilfield Solutions Inc.	4,462,507	29,899
^ Range Resources Corp.	6,106,465	29,616
* SRC Energy Inc.	6,901,198	28,433
* Renewable Energy Group Inc.	1,054,732	28,425
Nabors Industries Ltd.	9,677,647	27,872
* Centennial Resource Development	Inc. Class A 5,853,635	27,044
* ProPetro Holding Corp.	2,401,449	27,016
* Oasis Petroleum Inc.	8,224,751	26,813
*^ Plug Power Inc.	8,459,177	26,731
Oil States International Inc.Par Pacific Holdings Inc.	1,562,829	25,490
* Antero Resources Corp.	1,086,791 7,426,844	25,257 21,167
*^ Tellurian Inc.	2,764,646	20,127
* Northern Oil and Gas Inc.	8,063,300	18,868
*^ Whiting Petroleum Corp.	2,516,380	18,470
* Denbury Resources Inc.	12,999,073	18,329
* Tidewater Inc.	941,697	18,156
* SunPower Corp. Class A	2,311,973	18,033
Liberty Oilfield Services Inc. Class A		17,960
^ DMC Global Inc.	395,641	17,780
Brigham Minerals Inc.	770,431	16,518
Berry Petroleum Corp.	1,724,247	16,260
* Talos Energy Inc.* Matrix Service Co.	534,530	16,116
* TPI Composites Inc.	691,752 853,153	15,827 15,792
Green Plains Inc.	1,020,562	15,747
*^ FuelCell Energy Inc.	6,198,287	15,558
*^ Jagged Peak Energy Inc.	1,823,880	15,485
* Select Energy Services Inc. Class A		15,183
* Newpark Resources Inc.	2,408,585	15,102
* Laredo Petroleum Inc.	5,058,250	14,517
* W&T Offshore Inc.	2,527,654	14,054
* Penn Virginia Corp.	439,491	13,339
* REX American Resources Corp.	162,073	13,284
*^ Diamond Offshore Drilling Inc.	1,757,345	12,635
* Bonanza Creek Energy Inc.	519,376	12,122
Solaris Oilfield Infrastructure Inc. Cla	·	12,033
* Gulfport Energy Corp. *^ California Resources Corp.	3,931,369 1,309,658	11,951 11,826
A RPC Inc.	1,678,674	8,796
* Noble Corp. plc	7,133,017	8,702
* Trecora Resources	1,213,626	8,677

		Market Value
	Shares	(\$000)
* SEACOR Marine Holdings Inc.	530,041	7,309
Exterran Corp.TETRA Technologies Inc.	905,914 3,415,280	7,093 6,694
Falcon Minerals Corp.	918,900	6,487
* Parker Drilling Co.	279,913	6,298
* Contango Oil & Gas Co.	1,698,422	6,233
* Geospace Technologies Corp.	370,223	6,209
*^ Altus Midstream Co. Class A	2,047,083	5,855
* HighPoint Resources Corp.	3,029,949	5,121
Amplify Energy Corp.	772,672	5,107
* American Superconductor Corp.	611,757	4,802
* Natural Gas Services Group Inc.	365,316	4,479
*A Extraction Oil & Gas Inc.	2,112,129	4,478
* SandRidge Energy Inc.	959,542	4,068
Panhandle Oil and Gas Inc. Class A	352,515	3,952
Montage Resources Corp.KLX Energy Services Holdings Inc.	492,406 588,372	3,910 3,789
* Flotek Industries Inc.	1,892,315	3,789
Evolution Petroleum Corp.	633,497	3,465
* Forum Energy Technologies Inc.	2,020,961	3,395
*^ McDermott International Inc.	4,871,030	3,296
* PrimeEnergy Resources Corp.	21,616	3,270
*^ Ring Energy Inc.	1,214,955	3,208
* VAALCO Energy Inc.	1,411,904	3,134
* Gulf Island Fabrication Inc.	540,255	2,739
* ION Geophysical Corp.	314,750	2,732
* Goodrich Petroleum Corp.	265,810	2,669
Adams Resources & Energy Inc.	61,593	2,345
* Earthstone Energy Inc. Class A	361,929	2,291
* Nine Energy Service Inc.	289,270	2,262
National Energy Services Reunited Corp.	224,364	2,046
*^ Covia Holdings Corp.	944,310	1,926
* SilverBow Resources Inc.	191,149	1,892
Chaparral Energy Inc. Class AAbraxas Petroleum Corp.	1,059,360 4,759,228	1,865 1,671
* US Well Services Inc.	739,453	1,398
*^ Smart Sand Inc.	511,406	1,289
* Lonestar Resources US Inc. Class A	458,790	1,197
* Dawson Geophysical Co.	476,758	1,144
* Ranger Energy Services Inc.	167,815	1,081
* Independence Contract Drilling Inc.	1,051,282	1,048
*^ Torchlight Energy Resources Inc.	1,284,189	976
* Mitcham Industries Inc.	333,773	958
* FTS International Inc.	869,610	904
* Unit Corp.	1,280,836	891
*^ Pacific Ethanol Inc.	980,570	637
* Quintana Energy Services Inc.	221,242	622
*^ Infrastructure and Energy Alternatives Inc.	187,458	604
Gevo Inc.Epsilon Energy Ltd.	192,158 133,469	444 440
Mammoth Energy Services Inc.	194,314	428
* NCS Multistage Holdings Inc.	178,351	375
*^ Taronis Technologies Inc.	351,640	319
*^ Lilis Energy Inc.	690,800	263
*^ American Resources Corp. Class A	296,782	187
*^ Talos Energy Inc. Warrants Exp. 02/28/2021	116,107	187
* Superior Drilling Products Inc.	187,537	154
*.^ Zion Oil & Gas Inc.	831,368	144
* Rosehill Resources Inc. Class A	103,433	132
*.^.§ Taronis Fuels Inc.	1,758,200	130
TechnipFMC plc	5,981	128
*^ Enservco Corp.	529,212	99
* Aemetis Inc.	104,265	87
*^ PEDEVCO Corp.	42,749	71

			Market
		Shares	Value (\$000)
*,^	Alta Mesa Resources Inc. Class A	2,645,853	41
§	SemGroup Corp. Class A	2,560	39
*,^	Hornbeck Offshore Services Inc.	334,485	35
*	Tidewater Inc. Class A Tidewater Inc. Class B	8,839 9,555	14 11
*	Pioneer Energy Services Corp.	320,008	10
*,^	Houston American Energy Corp.	38,447	6
	Energy Transfer Equity LP	345	4
*,^	Bonanza Creek Energy Inc. Warrants Exp. 04/28/2020	33,839	1
*,§ *,^,§	Jones Energy Inc. Class A Harvest Natural Resources Inc.	782 51,829	
*,§	Rex Energy Corp.	302	_
0.1	(0.00)	_	36,261,723
Oth	ner (0.0%)3 Alder BioPharmaceuticals CVR Exp. 12/31/2024	2,021,007	1,779
,s *,^,§	Tobira Therapeutics CVR Exp. 12/31/2028	2,021,007	911
*,§	A Schulman Inc. CVR	659,182	285
*,§	New York REIT Liquidating LLC	19,100	248
*,^,§	ocora morapounco o m Emo	653,477	176
*,§	Corium CVR	782,067	141
*,§ *,§	NewStar Financial Inc. CVR Ambit Biosciences Corp. CVR	551,185 201,330	133 121
*,§	Media General Inc. CVR	2,351,934	91
*	Kadmon Warrants Exp. 09/29/2022	169,257	80
*,§	Omthera Pharmaceuticals Inc. CVR	121,311	73
*,§	OncoMed Pharmaceuticals Inc. CVR	255,777	70
*,§ *,§	Social Reality Inc. Rights Aratana Therapeutics Inc. CVR	148,260 575,457	27 15
, s *,§	Alexza Pharmaceuticals Inc. CVR	327,391	11
*,§	Seventy Seven Energy Inc. Escrow Line	7,222	1
*,§	OncoMed Pharmaceuticals Inc. CVR (XNGS)	40,724	_
*,§	Clinical Data CVR	216,285	_
*,^,§	Biosante Pharmaceutical Inc. CVR	253,823	_
*,§	TheStreet CVR	118,721	_
*,§	NuPathe Inc. CVR Advaxis Inc. Warrants Exp. 09/11/2024	158,681 157,660	
	Advants Inc. Waltants Exp. 00/11/2024	137,000	4,162
Tec	chnology (21.8%)		
	Microsoft Corp.	214,894,399	33,888,847
	Apple Inc.	112,647,486	33,078,934
*	Facebook Inc. Class A	67,790,793	13,914,060
*	Alphabet Inc. Class A Alphabet Inc. Class C	8,433,695 8,233,074	11,296,007 11,007,785
	Intel Corp.	122,533,964	7,333,658
	Cisco Systems Inc.	119,505,808	5,731,499
*	Adobe Inc.	13,636,027	4,497,298
	NVIDIA Corp.	16,376,180	3,853,315
*	salesforce.com Inc. Texas Instruments Inc.	23,468,715 26,327,998	3,816,952 3,377,619
	Broadcom Inc.	10,616,046	3,354,883
	International Business Machines Corp.	24,946,286	3,343,800
	Oracle Corp.	60,104,577	3,184,340
	QUALCOMM Inc.	32,166,321	2,838,035
*	Intuit Inc. Micron Technology Inc.	6,963,214 21,194,716	1,823,875
	Applied Materials Inc.	31,184,716 26,017,483	1,677,114 1,588,107
*	ServiceNow Inc.	5,313,797	1,500,191
*	Advanced Micro Devices Inc.	31,372,301	1,438,734
	Analog Devices Inc.	10,376,442	1,233,136
	L3Harris Technologies Inc.	6,231,979	1,233,122
*	Lam Research Corp. Autodesk Inc.	4,084,022 6,181,929	1,194,168 1,134,137
	Cognizant Technology Solutions Corp. Class A	6,181,929 15,434,809	957,267
	Sagment . Somiology Solutions Solp. Sidos / (10,707,000	307,207

			Market Value
		Shares	(\$000)
	HP Inc.	41,752,652	858,017
	KLA Corp.	4,448,375	792,567
	Motorola Solutions Inc.	4,826,137	777,684
*	Workday Inc. Class A	4,620,392	759,823
	Microchip Technology Inc.	6,724,114	704,149
	Xilinx Inc.	7,087,249	692,920
*	Twitter Inc.	20,777,810	665,929
*	Splunk Inc.	4,338,081	649,714
	Corning Inc.	21,677,884	631,043
	Cerner Corp.	8,415,910	617,644
*	ANSYS Inc.	2,369,763	610,001
*	Palo Alto Networks Inc.	2,620,834	606,068
*	Synopsys Inc.	4,231,878	589,077
	Skyworks Solutions Inc.	4,800,558	580,291
	Hewlett Packard Enterprise Co.	36,472,723	578,457
	CDW Corp.	4,049,435	578,421
*	VeriSign Inc.	2,980,427	574,269
*	IAC/InterActiveCorp	2,219,354	552,863
*	Cadence Design Systems Inc.	7,898,620	547,848
*	Veeva Systems Inc. Class A	3,705,590	521,228
	Western Digital Corp.	7,961,077	505,290
	Marvell Technology Group Ltd.	18,769,533	498,519
	Maxim Integrated Products Inc.	7,629,263	469,276
*	Snap Inc.	27,260,325	445,161
*	Fortinet Inc.	4,084,922	436,106
	NortonLifeLock Inc.	15,801,617	403,257
	NetApp Inc.	6,429,374	400,229
	Leidos Holdings Inc.	3,994,378	391,010
	Citrix Systems Inc.	3,482,724	386,234
*	Qorvo Inc.	3,272,490	380,362
	Seagate Technology plc	6,285,103	373,964
*	Akamai Technologies Inc.	4,328,371	373,885
	SS&C Technologies Holdings Inc.	6,055,730	371,822
*	Gartner Inc.	2,396,952	369,370
*	Paycom Software Inc.	1,393,352	368,904
*	RingCentral Inc. Class A	2,107,552	355,481
*	Okta Inc.	3,004,361	346,613
*	Twilio Inc. Class A	3,508,592	344,824
*	Tyler Technologies Inc.	1,096,184	328,877
*	VMware Inc. Class A	2,155,239	327,144
*	GoDaddy Inc. Class A	4,816,397	327,130
	Teradyne Inc.	4,719,871	321,848
*	EPAM Systems Inc.	1,472,320	312,367
*	Arista Networks Inc.	1,509,069	306,945
*	Dell Technologies Inc.	5,858,398	301,063
*	DocuSign Inc. Class A	3,966,166	293,933
*	ON Semiconductor Corp.	11,560,134	281,836
	DXC Technology Co.	7,228,256	271,710
*	Coupa Software Inc.	1,770,349	258,914
*	Black Knight Inc.	3,991,959	257,402
*	Guidewire Software Inc.	2,323,534	255,054
	Cypress Semiconductor Corp.	10,391,866	242,442
*	Zendesk Inc.	3,159,692	242,127
*	F5 Networks Inc.	1,707,295	238,424
*	Aspen Technology Inc.	1,928,191	233,176
	Juniper Networks Inc.	9,464,161	233,102
*	PTC Inc.	2,917,031	218,456
	Monolithic Power Systems Inc.	1,158,269	206,195
*	Ceridian HCM Holding Inc.	2,832,065	192,241
	Entegris Inc.	3,808,304	190,758
	CDK Global Inc.	3,413,867	186,670
*	Ciena Corp.	4,348,961	185,657
*	Proofpoint Inc.	1,592,627	182,802
*	HubSpot Inc.	1,147,698	181,910
		1,177,000	101,010

		Market Value
	Shares	(\$000)
* CACI International Inc. Class A	700,370	175,085
* MongoDB Inc.	1,327,893	174,764
MKS Instruments Inc.	1,534,448	168,805
* Lumentum Holdings Inc.	2,066,523	163,875
Finterest Inc. Class A	8,649,940	161,235
 Nutanix Inc. Slack Technologies Inc. Class A 	4,900,122 6,610,884	153,178 148,613
SYNNEX Corp.	1,147,639	148,613
* Anaplan Inc.	2,789,253	146,157
* Tech Data Corp.	998,007	143,314
* Manhattan Associates Inc.	1,796,617	143,280
* Silicon Laboratories Inc.	1,231,826	142,867
* Nuance Communications Inc.	7,992,585	142,508
Science Applications International Corp.	1,632,102	142,026
* Cree Inc.	3,016,639	139,218
* Avalara Inc.	1,844,550	135,113
* Cirrus Logic Inc.	1,629,015	134,247
* Alteryx Inc. Class A	1,314,396	131,532
* NCR Corp.	3,603,648	126,704
* Smartsheet Inc. Class A	2,795,586	125,578
j2 Global Inc.	1,299,461	121,772
*^ Match Group Inc.	1,482,112	121,696
* RealPage Inc.	2,256,965	121,312
* ViaSat Inc.	1,625,611	118,987
Cabot Microelectronics Corp.	819,510	118,272
LogMeIn Inc.	1,379,113	118,245
Act Worldwide Inc.	3,096,747	117,320
Blackbaud Inc. * Pure Storage Inc. Class A	1,396,846 6,404,513	111,189 109,581
* Five9 Inc.	1,648,945	109,561
* Dropbox Inc. Class A	5,999,164	107,445
* Verint Systems Inc.	1,892,425	104,765
Perspecta Inc.	3,887,005	102,772
* Semtech Corp.	1,889,129	99,935
* Q2 Holdings Inc.	1,226,275	99,426
* New Relic Inc.	1,501,016	98,632
* Envestnet Inc.	1,392,598	96,967
* Viavi Solutions Inc.	6,434,687	96,520
* Inphi Corp.	1,287,132	95,274
* Cornerstone OnDemand Inc.	1,623,420	95,051
* FireEye Inc.	5,727,849	94,681
Pegasystems Inc.	1,115,155	88,822
* Zscaler Inc.	1,806,498	84,002
* Teradata Corp.	3,137,762	83,998
Brooks Automation Inc.	1,941,539	81,467
Cogent Communications Holdings Inc.	1,200,715	79,019
Power Integrations Inc. * Qualys Inc.	792,936 938,007	78,429 78,202
* Advanced Energy Industries Inc.	1,084,524	76,202
* CommScope Holding Co. Inc.	5,435,223	77,126
* Everbridge Inc.	938,837	73,304
* Elastic NV	1,121,526	72,114
* Lattice Semiconductor Corp.	3,728,241	71,359
* Rapid7 Inc.	1,267,840	71,024
* Premier Inc. Class A	1,870,353	70,849
* Acacia Communications Inc.	1,033,000	70,048
* Insight Enterprises Inc.	988,827	69,505
* Box Inc.	3,916,557	65,720
* Diodes Inc.	1,156,012	65,164
* Bottomline Technologies de Inc.	1,214,398	65,092
* Blackline Inc.	1,260,077	64,970
* PROS Holdings Inc.	1,074,488	64,383
* Varonis Systems Inc.	822,755	63,936
* LivePerson Inc.	1,648,173	60,982

		Market Value
	Shares	(\$000)
Cloudera Inc.	5,163,048	60,046
Synaptics Inc.	894,194	58,811
EchoStar Corp. Class A	1,333,656	57,761
SailPoint Technologies Holding Inc. FormFactor Inc.	2,381,898 2,127,216	56,213 55,244
SPS Commerce Inc.	2,127,216 981,314	55,244
SVMK Inc.	2,987,282	53,383
Progress Software Corp.	1,281,359	53,240
CommVault Systems Inc.	1,182,407	52,783
Appfolio Inc.	462,865	50,892
Dynatrace Inc.	1,974,719	49,960
CSG Systems International Inc.	941,178	48,734
NetScout Systems Inc.	2,012,934	48,451
InterDigital Inc.	884,235	48,182
Instructure Inc.	939,078	45,273
Allscripts Healthcare Solutions Inc.	4,578,041	44,933
Alarm.com Holdings Inc.	1,023,938	43,999
Rambus Inc.	3,152,798	43,430
Avaya Holdings Corp.	3,123,495	42,167
Onto Innovation Inc. NIC Inc.	1,140,381	41,670
Perficient Inc.	1,834,163 888,442	40,994 40,931
Infinera Corp.	5,138,765	40,802
MaxLinear Inc.	1,821,968	38,662
Altair Engineering Inc. Class A	1.047.473	37,615
Workiva Inc. Class A	891,599	37,492
Blucora Inc.	1,407,967	36,804
Appian Corp. Class A	937,159	35,809
Covetrus Inc.	2,692,646	35,543
Ubiquiti Inc.	183,513	34,680
Yext Inc.	2,362,936	34,074
ForeScout Technologies Inc.	1,037,318	34,024
Virtusa Corp.	738,059	33,456
Eventbrite Inc. Class A	1,628,475	32,846
MicroStrategy Inc. Class A	228,635	32,610
Bandwidth Inc. Class A ePlus Inc.	507,298	32,492 31.536
Zuora Inc. Class A	374,139 2,167,428	31,059
Datadog Inc. Class A	778,274	29,403
TiVo Corp.	3,431,674	29,101
Crowdstrike Holdings Inc. Class A	579,156	28,883
Model N Inc.	821,116	28,797
Photronics Inc.	1,820,840	28,696
3D Systems Corp.	3,198,222	27,984
Switch Inc.	1,878,163	27,834
Tabula Rasa HealthCare Inc.	567,146	27,609
Plantronics Inc.	982,313	26,856
Tenable Holdings Inc.	1,112,471	26,655
ScanSource Inc.	718,116	26,534
Xperi Corp.	1,399,663	25,894
Extreme Networks Inc.	3,475,631	25,615
Cision Ltd.	2,512,222	25,047
SolarWinds Corp. Ultra Clean Holdings Inc.	1,345,207 1,045,527	24,954 24,539
Shutterstock Inc.	560,041	24,039
NextGen Healthcare Inc.	1,437,853	23,106
Comtech Telecommunications Corp.	650,185	23,100
Amkor Technology Inc.	1,757,933	22,853
Cerence Inc.	1,001,844	22,672
Cohu Inc.	990,241	22,627
Diebold Nixdorf Inc.	2,139,493	22,593
EL: I	2,133,433	,000
Ebix Inc.	642,381	21,462
Ebix Inc. Ichor Holdings Ltd. Unisys Corp.		

NETGEAT Inc. 942,654 2 12 12 12 12 12 12 12				Market Value
Pagerduty Inc. 970,131 2			Shares	(\$000)
Upland Software Inc. 565,076 2 Plinsy Bowse Inc. 4,822,246 1 Cloudfiere Inc. Class A 1,131,294 1 Axeelis Technologies Inc. 1,90,987 1 Harmonic Inc. 2,389,810 1 Vocera Communications Inc. 686,427 1 CEVA Inc. 686,427 1 Toovos Inc. Class A 281,100 1 Toovos Inc. 690,331 1 Toovos Inc. 752,233 1 Too Inc.	*		·	20,651
Pincy Bowes Inc. 4,822,345 1 1,317,944 1 2 2 2 2 2 2 2 2 2	*,^		·	20,352
Cloudiflare Inc. Class A 1,131,294 1 Axcelis Technologies Inc. 799,987 1 Harmonic Inc. 2,369,910 1 CCVA Inc. 618,426 1 CEVA Inc. 618,426 1 Livonge Health Inc. 618,426 1 Tucove Inc. Class A 261,160 1 OAD Inc. Class A 315,200 1 Medalla Inc. 912,337 1 Medalla Inc. 912,337 1 Benefitours Inc. 152,323 1 In Light Inc. 752,323 1 PC Connection Inc. 294,070 1 Domo Inc. 660,331 1 Domo Inc. 660,031 1 Domo Inc. 782,323 1 ADTRAN Inc. 1,380,272 1 ADTRAN Inc. 1,380,272 1 Forst Sciutions Inc. 1,380,272 1 ADTRAN Inc. 1,210,752 1 Boingo Wireless Inc. 1,210,752 1 Li	*	·		20,179
4. Accelis Technologies Inc. 759,987 1 Vocora Communications Inc. 886,427 1 Vocora Communications Inc. 886,427 1 CEVA Inc. 618,426 1 Livongo Health Inc. 663,641 1 Livongo Health Inc. 663,641 1 On Class A 315,230 1 OneSpan Inc. 902,337 1 OneSpan Inc. 902,337 1 Benefificous Inc. 902,337 1 Aphysys Inc. 752,322 1 Aphysys Inc. 752,323 1 Domo Inc. 969,903	*			19,434 19,300
Harmonic Inc.	*			19,300
Vocera Communications Inc. 686,427 1 CEVA Inc. 618,426 1 Livongo Health Inc. 663,641 1 Tucows Inc. Class A 261,160 1 OAD Inc. Class A 315,230 1 OneSpan Inc. 902,387 1 Benefit Cous Inc. 902,387 1 Benefit Cous Inc. 909,387 1 Aljksys Inc. 752,323 1 P. Connection Inc. 294,070 1 Domo Inc. 660,931 1 Domo Inc. 660,931 1 Displays Inc. 783,237 1 PDF Solutions Inc. 783,237 1 ADITAN Inc. 1,380,223 1 ADITAN Inc. 1,380,223 1 Festly Inc. Class A 675,045 1 Boingo Wireless Inc. 1,210,732 1 Boingo Wireless Inc. 3,06,093 1 Limelight Networks Inc. 3,06,093 1 NosePhotonics Corp. 1,404,730 1	*			18,404
CEVA Inc.	*			17,987
Livengo Health Inc. 683,841 1	*			16,673
ADA Dinc. Class A 316,230 1	*,^			16,631
** Medalla Inc. 512.374 1 OneSpan Inc. 692.387 1 Benefitrocus Inc. 655.903 1 Aljivays Inc. 752.323 1 PC Cornection Inc. 579.622 2 Domo Inc. 660.931 1 Digit International Inc. 783.237 1 PDF Solutions Inc. 819.979 330.223 1 ADTRAN Inc. 1,380.223 1 Fastly Inc. Class A 675.045 1 Boingo Wireless Inc. 1,210.732 1 Limelight Networks Inc. 3,213.089 1 Forrester Research Inc. 306.093 1 Forrester Research Inc. 306.093 1 Mobile Iron Inc. 2,542.677 1 Mobile Iron Inc. 2,542.677 1 Rosetts Store Inc. 454.438 1 Ping Identity Holding Corp. 451.270 1 Impin Inc. 452.507 1 Calk Inc. 1,607.8381 1 Impin Inc.	*,^	Tucows Inc. Class A	261,160	16,134
OneSpan Inc. 902,387 1 Renefitocus Inc. 965,903 1 n Light Inc. 752,223 1 Agliysys Inc. 759,262 1 PC Connection Inc. 600,331 1 Dig International Inc. 783,237 1 PDF Solutions Inc. 1819,979 1 ADTRAN Inc. 1,380,223 1 Fastly Inc. Class A 675,045 1 Boingo Wireless Inc. 1,210,732 1 Limelight Networks Inc. 3,213,089 1 Forrester Research Inc. 306,093 1 Lorial Space & Communications Inc. 304,427 1 NeoPhotonics Corp. 1,404,730 1 Mobiletron Inc. 2,522,677 1 Resetta Stone Inc. 671,325 1 Resetta Stone Inc. 671,325 1 Phreesia Inc. 671,325 1 Implij Inc. 481,270 1 Implij Inc. 483,270 1 Implij Inc. 483,270		QAD Inc. Class A	315,230	16,055
Benefitfocus Inc. 695,903 1 Agilysys Inc. 752,223 1 PC Connection Inc. 294,070 1 Domo Inc. 660,931 1 Digl International Inc. 783,237 1 PDF Solutions Inc. 13,9029 1 ADTRAM Inc. 1,390,223 1 Fastly Inc. Class A 675,045 1 Burge Wireless Inc. 1,213,032 1 Limelight Networks Inc. 3,213,089 1 Forester Research Inc. 306,093 1 Loral Space & Communications Inc. 394,427 1 NeoPhotonics Corp. 1,404,730 1 Mobiletion Inc. 2,542,677 1 Rosetta Stone Inc. 671,325 1 Phressia Inc. 454,438 1 Phressia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Phressia Inc. 454,438 1 Implicative Hydeling Corp. 451,270 1 Implicative Hydeling C	*,^		·	15,940
1. Aljaht Inc. 752,232 1 Agjlysys Inc. 559,262 1 PC Connection Inc. 660,931 1 Domo Inc. 660,931 1 Dig International Inc. 783,237 1 PPF Solutions Inc. 1819,979 1 ADTRAN Inc. 1,380,223 1 Fastly Inc. Class A 675,045 1 Boingo Wireless Inc. 1,210,732 1 Immelght Networks Inc. 321,3089 1 Increaser Research Inc. 306,093 1 Increaser Research Inc. 306,093 1 NeoPhotonics Corp. 394,427 1 NeoPhotonics Corp. 394,427 1 NeoPhotonics Corp. 394,427 1 Phreesia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Implij Inc. 435,507 1 Calix Inc. 1,203,831 1 Implij Inc. 1,203,831 1 Calix Inc. 1,304,839 <	*			15,449
Agilysys Inc. 579,262 1 PC Connection Inc. 294,070 1 Domo Inc. 680,931 1 Dig International Inc. 783,227 1 PDF Solutions Inc. 139,979 1 ADTRAM Inc. 1,380,223 1 Fastly Inc. Class A 675,045 1 Boingo Wireless Inc. 1,210,732 1 Limelight Networks Inc. 3,213,089 1 Forester Research Inc. 3,213,089 1 Lord Space & Communications Inc. 3,244,277 1 NeoPhotonics Corp. 1,404,730 1 Mobiletron Inc. 2,542,677 1 Rosetta Stone Inc. 671,325 1 Phressia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Injain Inc. 890,737 1 ChannelAdvisor Corp. 1,203,881 1 DSP Group Inc. 1,350,661 1 Miles System	*			15,268
Pc Connection Inc.	*			15,257
Domo Inc. 660,931 1 Dig International Inc. 783,237 1 PDF Solutions Inc. 819,979 1 ADTRAN Inc. 1,380,223 1 Fastly Inc. Class A 675,045 1 Boingo Wireless Inc. 1,210,732 1 Limielight Networks Inc. 306,093 1 Forrester Research Inc. 306,093 1 Loral Space & Communications Inc. 394,427 1 NeoPhotonics Corp. 1,404,730 1 Mobilelron Inc. 2,542,677 1 Rosetta Stone Inc. 671,325 1 Phreesia Inc. 454,438 4 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Implij Inc. 423,507 1 Implij Inc. 423,507 1 Channel Advisor Corp. 690,737 1 Limelijk Klassens Inc. 1,203,831 1 DSG Group Inc. 690,737 1 Mitek System	*	5 <i>,</i> ,		14,719
Digi International Inc.	*			14,604 14,355
PIFS Solutions Inc.	*		·	13,879
ADTRAN Inc.	*		·	13,849
1. Fastly Inc. Class A 675,045 1 8 Boingo Wireless Inc. 1,210,732 1 Limelight Networks Inc. 3,213,089 1 Forrester Research Inc. 306,093 1 Loral Space & Communications Inc. 394,427 1 MobileTol Inc. 2,542,677 1 Roserta Stone Inc. 671,325 1 Phressia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Imping Inc. 451,270 1 Imping Inc. 452,507 1 ChannelAdvisor Corp. 1,203,831 1 DSD Group Inc. 690,737 1 Calix Inc. 1,350,651 1 Mittek Systems Inc. 1,407,469 1 Immersion Corp. 1,407,469 1 Immersion Corp. 1,634,682 1 Digimarc Corp. 308,724 1 Systems Inc. 1,634,682 1 Immersion Corp. 1,534,682 1 Digimarc Corp. 308,724 1 Vigimar Corp. 1,524,192 <t< td=""><td></td><td></td><td></td><td>13,650</td></t<>				13,650
Boingo Wireless Inc.	*			13,548
Limelight Networks Inc. 3,213,089 1	*		1,210,732	13,258
Loral Space & Communications Inc.	*		3,213,089	13,109
NeoPhotonics Corp. 1,404,730 1 MobileIron Inc. 2,542,677 1 Phreesia Inc. 671,325 1 Phreesia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Impinj Inc. 423,507 1 ChannelAdvisor Corp. 1,203,831 1 DSP Group Inc. 690,737 1 Calix Inc. 1,350,651 1 Mitek Systems Inc. 1,407,469 1 Mitek Systems Inc. 1,407,469 1 Immersion Corp. 1,423,999 1 Gogo Inc. 1,634,682 1 Simulations Plus Inc. 356,987 1 Diginare Corp. 308,724 1 Zix Corp. 1,516,117 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 377,475 WideOpenWest Inc. 1,324,192 <t< td=""><td>*</td><td>Forrester Research Inc.</td><td>306,093</td><td>12,764</td></t<>	*	Forrester Research Inc.	306,093	12,764
MobileIron Inc. 2,542,677 1 Rosetta Stone Inc. 671,325 1 Phreesia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Impinj Inc. 423,507 1 ChannelAdvisor Corp. 1,203,831 1 DSP Group Inc. 690,737 1 Calix Inc. 1,350,651 1 Mitek Systems Inc. 1,423,999 1 Immersion Corp. 1,423,999 1 Gogo Inc. 1,634,682 1 Simulations Plus Inc. 365,987 1 Digimarc Corp. 1,516,117 1 Viscorp. 1,516,117 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 1,324,192 Inseego Corp. 1,324,192 Inseego Corp. 1,961,956 Brightcowe Inc. 1,961,956 Brightcowe Inc.	*			12,748
Rosetta Stone Inc. 671,325 1 Phreesia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Impinj Inc. 423,507 1 ChannelAdvisor Corp. 1,203,831 1 DSP Group Inc. 690,737 1 Mitek Systems Inc. 1,407,469 1 Immersion Corp. 1,407,469 1 Mitek Systems Inc. 1,407,469 1 Immersion Corp. 1,534,682 1 Simulations Plus Inc. 356,987 1 Digimarc Corp. 356,987 1 Zix Corp. 1,516,117 1 Systemax Inc. 619,693 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 1,324,192 Insecop Corp. 1,324,192 Insecop Corp. 1,324,192 Insecop Corp. 1,961,956 Brightcove Inc. 1,961,956 Brightcove Inc. 1,	*	·		12,390
Phreesia Inc. 454,438 1 American Software Inc. Class A 762,683 1 Ping Identity Holding Corp. 451,270 1 Impinj Inc. 423,507 1 ChannelAdvisor Corp. 1,203,831 1 DSP Group Inc. 690,737 1 Calix Inc. 1,350,651 1 Mitek Systems Inc. 1,407,469 1 Immersion Corp. 1,433,999 1 Gogo Inc. 1,634,682 1 Simulations Plus Inc. 356,987 1 Digimarc Corp. 388,724 1 Zix Corp. 388,724 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 1,324,192 WideOpenWest Inc. 1,324,192 Inseego Corp. 1,324,935 Endurance International Group Holdings Inc. 1,961,956 Brightcove Inc. 921,267 A10 Networks Inc. 1,270,818 PAR Technology Corp. <t< td=""><td>*</td><td></td><td></td><td>12,357</td></t<>	*			12,357
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*** Gogo Inc. 1,634,682 1 Simulations Plus Inc. 356,987 1 ** Digimarc Corp. 308,724 1 ** Zix Corp. 1,516,117 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 377,475 ** WideOpenWest Inc. 1,324,192 ** Inseego Corp. 1,328,518 ** Telaria Inc. 1,089,812 Endurance International Group Holdings Inc. 1,961,956 ** Brightcove Inc. 1,024,210 ** CalAmp Corp. 921,267 ** A10 Networks Inc. 1,270,818 ** PAR Technology Corp. 281,971 ** Meet Group Inc. 1,713,929 ** Health Catalyst Inc. 233,187 ** Goin Corp. 1,006,987 ** Sciplay Corp. Class A 614,419 ** Ooma Inc. 560,175 ** Alpha & Omega Semiconductor Ltd. 506,384 ** VirnetX Holding Corp. 1,760,709 ** Systemax Inc. 1,386,822	*	Mitek Systems Inc.	1,407,469	10,767
Simulations Plus Inc. 356,987 1 Digimarc Corp. 308,724 1 Zix Corp. 1,516,117 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 377,475 WideOpenWest Inc. 1,324,192 Inseego Corp. 1,328,518 Telaria Inc. 1,089,812 Endurance International Group Holdings Inc. 1,961,956 Brightcove Inc. 1,024,210 CalAmp Corp. 921,267 A10 Networks Inc. 1,270,818 PAR Technology Corp. 281,971 Meet Group Inc. 1,713,929 Health Catalyst Inc. 238,187 eGain Corp. 1,006,987 Sciplay Corp. Class A 614,419 Ooma Inc. 560,175 Alpha & Omega Semiconductor Ltd. 506,384 VirnetX Holding Corp. 1,760,709 Synchronoss Technologies Inc. 1,386,822	*	Immersion Corp.	1,423,999	10,580
Mode of Digimarc Corp. 308,724 1 Zix Corp. 1,516,117 1 Systemax Inc. 402,152 1 Hackett Group Inc. 619,693 1 Computer Programs & Systems Inc. 377,475 WideOpenWest Inc. 1,324,192 Inseego Corp. 1,328,518 Telaria Inc. 1,089,812 Endurance International Group Holdings Inc. 1,961,956 Brightcove Inc. 1,904,210 CalAmp Corp. 921,267 A10 Networks Inc. 1,270,818 PAR Technology Corp. 281,971 Meet Group Inc. 1,713,929 Health Catalyst Inc. 238,187 eGain Corp. 1,006,987 Sciplay Corp. Class A 614,419 Ooma Inc. 560,175 Alpha & Omega Semiconductor Ltd. 506,384 VirnetX Holding Corp. 1,760,709 Synchronoss Technologies Inc. 1,386,822	*,^			10,462
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*** Inseego Corp. 1,328,518 * Telaria Inc. 1,089,812 * Endurance International Group Holdings Inc. 1,961,956 * Brightcove Inc. 1,024,210 * CalAmp Corp. 921,267 * A10 Networks Inc. 1,270,818 * PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*			9,965
* Telaria Inc. 1,089,812 * Endurance International Group Holdings Inc. 1,961,956 * Brightcove Inc. 1,024,210 * CalAmp Corp. 921,267 * A10 Networks Inc. 1,270,818 * PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Oma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*,^			9,738
** Endurance International Group Holdings Inc. 1,961,956 * Brightcove Inc. 1,024,210 * CalAmp Corp. 921,267 * A10 Networks Inc. 1,270,818 * PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*			9,601
* Brightcove Inc. 1,024,210 * CalAmp Corp. 921,267 * A10 Networks Inc. 1,270,818 * PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*			9,221
** CalAmp Corp. 921,267 ** A10 Networks Inc. 1,270,818 *^ PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*			8,900
* A10 Networks Inc. 1,270,818 * PAR Technology Corp. 281,971 * Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*	CalAmp Corp.		8,826
* Meet Group Inc. 1,713,929 * Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822				8,731
** Health Catalyst Inc. 238,187 * eGain Corp. 1,006,987 * Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*,^			8,668
 eGain Corp. Sciplay Corp. Class A Ooma Inc. Alpha & Omega Semiconductor Ltd. VirnetX Holding Corp. Synchronoss Technologies Inc. 1,006,987 614,419 560,175 1,760,709 1,386,822 	*			8,587
* Sciplay Corp. Class A 614,419 * Ooma Inc. 560,175 * Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822	*,^		·	8,265
 Ooma Inc. Alpha & Omega Semiconductor Ltd. VirnetX Holding Corp. Synchronoss Technologies Inc. 560,175 506,384 1,760,709 1,386,822 	*			7,975
* Alpha & Omega Semiconductor Ltd. 506,384 * VirnetX Holding Corp. 1,760,709 * Synchronoss Technologies Inc. 1,386,822			·	7,551
*^VirnetX Holding Corp.1,760,709*Synchronoss Technologies Inc.1,386,822	*			7,411 6,897
* Synchronoss Technologies Inc. 1,386,822	* ^			6,691
	*			6,587
*A Applied Optoelectronics Inc. 543,768	*,^			6,460
	*			6,444

			Market Value
		Shares	(\$000)
*	Telenav Inc.	1,241,422	6,033
	Smith Micro Software Inc. ACM Research Inc. Class A	1,496,075	5,954 5,772
	KVH Industries Inc.	312,880	5,773 5,542
*	AXT Inc.	497,940 1,240,497	5,342 5,396
	PC-Tel Inc.	630,730	5,342
*	GSI Technology Inc.	745,664	5,287
*	Clearfield Inc.	359,810	5,016
*	Icad Inc.	602,206	4,679
*	Pixelworks Inc.	1,184,741	4,644
*	Ribbon Communications Inc.	1,481,280	4,592
*	Castlight Health Inc. Class B	3,132,276	4,166
*	SharpSpring Inc.	362,676	4,160
*	Casa Systems Inc.	958,408	3,920
*,2	Computer Task Group Inc.	746,502	3,867
*	Rimini Street Inc.	993,567	3,855
	AstroNova Inc.	278,254	3,818
	Seachange International Inc.	910,106	3,813
*,^	Intelligent Systems Corp. Powerfleet Inc.	93,431 557.668	3,732 3,630
	DASAN Zhone Solutions Inc.	390,702	3,630 3,462
	GlobalSCAPE Inc.	343,775	3,379
*	LRAD Corp.	1,009,473	3,301
*	SecureWorks Corp. Class A	193,975	3,232
*,^	Red Violet Inc.	172,101	3,186
*	Airgain Inc.	285,067	3,047
*	VOXX International Corp. Class A	669,837	2,934
*	Great Elm Capital Group Inc.	825,118	2,756
*	Synacor Inc.	1,651,360	2,510
	TransAct Technologies Inc.	222,314	2,439
*,^	Everspin Technologies Inc.	444,486	2,338
	TESSCO Technologies Inc.	206,522	2,317
*	RigNet Inc.	338,521	2,234
*	GTY Technology Holdings Inc.	374,827	2,208
*,^	Park City Group Inc.	411,713	2,083
	Identiv Inc.	350,250 275.195	1,975
*	Amtech Systems Inc. Majesco	275,195	1,970 1,920
*	Cambium Networks Corp.	219,183	1,916
*	Intellicheck Inc.	236.720	1,773
*	Aviat Networks Inc.	118,360	1,663
	QAD Inc. Class B	44,450	1,640
*	Beyond Air Inc.	297,828	1,558
*	EMCORE Corp.	474,814	1,443
	Wayside Technology Group Inc.	84,276	1,365
*	Key Tronic Corp.	240,560	1,309
*	NetSol Technologies Inc.	324,689	1,299
*,^	Resonant Inc.	524,589	1,270
*	inTEST Corp.	208,654	1,241
*,^	QuickLogic Corp.	205,951	1,236
*,^	Lantronix Inc.	339,677	1,206
*,^	Veritone Inc.	433,625	1,080
*,^	Atomera Inc.	338,487	1,043
*,^	Sprout Social Inc. Class A	58,379 156,574	937 922
*	Mohawk Group Holdings Inc. Mastech Digital Inc.	156,574 81,534	922
*	GSE Systems Inc.	81,534 541,861	903 894
*,^	Akerna Corp.	100,350	846
,	Support.com Inc.	713,671	778
*	Data I/O Corp.	179,297	773 751
*,^	Kopin Corp.	1,867,120	749
*	Innodata Inc.	649,340	740
*	Qumu Corp.	269,483	703
*	Finjan Holdings Inc.	345,955	695
		,	-

CSP Inc.				Market Value
1. Orgenigation Inc. 168 745 616 2. Alart Test Systems 292,832 586 3. Alart Test Systems 159,837 586 5. Comminications Systems Inc. 159,437 579 6. Intronap Comminications Systems Inc. 489,373 578 7. Comminications Systems Inc. 489,373 578 8. Coll Equipment Corp. 489,373 484 8. Coll Equipment Corp. 162,311 523 8. Coll Technologies Inc. 158,855 375 9. Coll Equipment Corp. 158,855 375 10. Collegation Inc. 128,944 383 11. Collegation Inc. 128,944 283 12. September Corp. 283,949 383 12. September Corp. 283,949 383 12. September Corp. 283,949 383 12. September Corp. 383,949 383 12. Statemathe			Shares	(\$000)
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Amir Test Systems 292,832 586 586 586 586 586 169,487 577 578 586	*			
5. Solim Tachnologies Inc. 159,487 579 6. Interrap Corp. 489,314 649 7. Corpursications Systems Inc. 489,914 649 8. Technologies Corp. 173,782 539 7. CVD Equipment Corp. 122,318 494 8. Evela Technologies Inc. 122,328 494 9. CVD Technologies Inc. 128,525 494 10. Cear One Inc. 200,13 365 10. Clear One Inc. 200,399 255 10. Clear One Inc. 203,399 255 10. Clear One Inc. 203,399 255 10. Clear One Inc. 200,399 255 10. Clear One Inc. 200,44 200	*,^			
Communications Systems Inc.	*	,		
Interrace Corp. 488,814 549 CVD Equipment Corp. 172,782 529 CVD Equipment Corp. 162,311 523 Receive Technologies Inc. 121,232 448 RAM Technologies Inc. 158,855 375 Clear One Inc. 158,855 375 Clear One Inc. 220,013 365 WidePoint Corp. 431,774 335 RembiolON Inc. Class B 374,425 287 Network-1 Technologies Inc. 289,398 285 Network-1 Technologies Inc. 189,398 285 Network-1 Technologies Inc. 180,474 283 Network-1 Technologies Inc. 289,398 285 Security Inc. 29,415 220 Optical Cable Corp. 40,444 204 Audiceye Inc. 40,44	*			
REA Fechnologies Corp. 173,782 539 120,231 523 120,231 523 120,231 523 120,231 523 120,231 523 120,231 120	* ^		·	
CV DE Equipment Corp. 162,311 523 Beale Technologies Inc. 158,625 476 CRM Technologies Inc. 158,625 476 Clear One Inc. 220,013 365 Clear One Inc. 220,013 365 Wide Point Corp. 843,774 328 Naturation Technologies Inc. 198,437,42 287 Naturation Technologies Inc. 259,399 285 Naturation Technologies Inc. 259,399 285 Naturation Technologies Inc. 180,437 283 Sagna Labs Inc. 259,399 285 Signa Labs Inc. 180,437 220 Optical Cable Corp. 62,844 204 Audio Eye Inc. 180,806 128 Inva Inc. 181,806 128 Inva Inc. 284 204 Inva Inc. 48,180 126				
E. Bela Technologies Inc. 1,212,328 494 RCM Technologies Inc. 1818,655 375 Vision Corp. 1818,655 375 Wide Point Corp. 843,774 336 Newtork-1 Technologies Inc. 129,064 283 Newtord-1 Technologies Inc. 129,664 283 Newtord-1 Technologies Inc. 129,684 283 Newtord-1 Technologies Inc. 180,433 251 Newtord-1 Melantic Inc. 180,433 251 Newtord-1 Melantic Inc. 180,433 251 Obtacl Cable Corp. 62,044 204 Obtacl Cable Corp. 62,044 204 AudioCyle Journal Inc. 49,045 194 Nation Corp. 49,045 194 Nation Corp. 400,433 118 Nation Corp. <t< td=""><td>*</td><td></td><td>·</td><td></td></t<>	*		·	
RM Technologies Inc. 188,255 476 Super League Gaming Inc. 188,885 375 C Loar One Inc. 220,013 365 Widde Part Corp. 484,774 336 MusbloON Inc. Class B 347,425 287 Networt-I Technologies Inc. 259,399 255 Networt-I Technologies Inc. 259,399 255 S BSOLARE Corp. 100,438 251 S Treamline Health Solutions Inc. 171,772 239 Xoel Brands Inc. 151,456 227 Xoel Brands Inc. 224,155 220 Optical Colle Corp. 62,844 204 AudioEye Inc. 40,564 190 One Stop Systems Inc. 40,564 190 Hore Comedigm Corp. Class A 818,000 128 FTE Networks Inc. 818,000 128 FTE Networks Inc. 40,454 100 Include The Computation of the Computation	*			
1. ClearOne Inc. 220,013 365 № WiddePoint Corp. 343,774 236 № RubbleON Inc. Class B 347,425 287 № Networts Technologies Inc. 259,399 255 № Neutoritope Inc. 259,399 255 ■ SSQUARE Corp. 180,438 251 № Xoel Brands Inc. 171,772 239 Notal Stands Inc. 224,155 220 Optical Cable Corp. 40,564 204 AudioEye Inc. 40,564 190 One Stop Systems Inc. 40,564 190 Inclinedigm Corp. Class A 183,006 128 Inclinedigm Corp. Class A <t< td=""><td>*</td><td></td><td></td><td></td></t<>	*			
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* ORBCOMM Inc. 2,349,918 9,893 * Globalstar Inc. 15,574,538 8,079 Consolidated Communications Holdings Inc. 1,980,545 7,685 Spok Holdings Inc. 595,202 7,279 * IDT Corp. Class B 542,884 3,914				
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Spok Holdings Inc. 595,202 7,279 * IDT Corp. Class B 542,884 3,914				
* IDT Corp. Class B 542,884 3,914		Spok Holdings Inc.		
	*	IDT Corp. Class B	542,884	3,914
	*,^	Frontier Communications Corp.	3,110,382	

			Market
		Shares	Value (\$000)
*	Alaska Communications Systems Group Inc.	1,464,757	2,593
*,^	HC2 Holdings Inc.	899,952	1,953
*,^	Pareteum Corp.	2,926,761	1,280
*	Otelco Inc. Class A	54,417	545
•	CPS Technologies Corp.	109,990	111 17,097,761
Util	lities (3.2%)		
	NextEra Energy Inc.	13,771,294	3,334,857
	Dominion Energy Inc. Southern Co.	23,201,887 29,571,715	1,921,580 1,883,718
	Duke Energy Corp.	20,523,318	1,871,932
	American Electric Power Co. Inc.	13,888,523	1,312,604
	Exelon Corp.	27,299,560	1,244,587
	Sempra Energy	7,721,523	1,169,656
	Xcel Energy Inc.	15,066,539	956,575
	Consolidated Edison Inc. Public Service Enterprise Group Inc.	9,348,513 14,238,825	845,760 840,803
	WEC Energy Group Inc.	8,864,487	817,572
	Eversource Energy	9,100,612	774,189
	Edison International	10,104,969	762,016
	FirstEnergy Corp.	15,182,635	737,876
	PPL Corp.	20,344,897	729,975
	DTE Energy Co. Entergy Corp.	5,390,613 5,592,467	700,079 669,978
	American Water Works Co. Inc.	5,592,467 5,061,908	621,855
	Ameren Corp.	6,969,206	535,235
	CMS Energy Corp.	8,008,458	503,251
	Evergy Inc.	6,453,205	420,039
	CenterPoint Energy Inc.	14,094,472	384,356
	Alliant Energy Corp.	6,851,769	374,929
	Atmos Energy Corp. AES Corp.	3,342,896 18,667,089	373,936 371,475
	NiSource Inc.	10,474,824	291,619
	Agua America Inc.	6,061,458	284,525
	Pinnacle West Capital Corp.	3,143,232	282,671
	NRG Energy Inc.	6,763,336	268,843
	UGI Corp.	5,856,811	264,494
	Vistra Energy Corp. OGE Energy Corp.	10,995,825 5,609,823	252,794 249,469
*	PG&E Corp.	14,891,081	161,866
	IDACORP Inc.	1,421,276	151,792
	Hawaiian Electric Industries Inc.	3,143,896	147,323
	ONE Gas Inc.	1,496,190	139,998
	Portland General Electric Co.	2,490,815	138,963
	Black Hills Corp.	1,729,178	135,810
	New Jersey Resources Corp. ALLETE Inc.	2,685,032	119,672 117,370
	PNM Resources Inc.	1,445,980 2,266,002	117,370
	Spire Inc.	1,361,163	113,398
	National Fuel Gas Co.	2,433,738	113,266
	Southwest Gas Holdings Inc.	1,425,565	108,300
	NorthWestern Corp.	1,420,193	101,785
	Avangrid Inc.	1,816,022	92,908
	Avista Corp. American States Water Co.	1,891,668 1,029,208	90,970 89,171
	South Jersey Industries Inc.	2,652,746	89,171 87,488
	Ormat Technologies Inc.	1,134,189	84,520
	MGE Energy Inc.	989,192	77,968
	El Paso Electric Co.	1,140,602	77,435
	Pattern Energy Group Inc. Class A	2,737,483	73,241
	California Water Service Group	1,367,725	70,520
	Northwest Natural Holding Co. SJW Group	859,382 791,961	63,362 56,277
	Chesapeake Utilities Corp.	474,728	45,493
	οποσαρσακό στιπτός συτρ.	4/4,/28	40,493

				Market Value
			Shares	(\$000)
* Evoqua Water Technologies Corp.			2,093,609	39,674
TerraForm Power Inc. Class A			2,527,143	38,893
* Sunrun Inc.			2,351,886	32,479
Middlesex Water Co.			460,385	29,267
Unitil Corp.			465,779	28,794
York Water Co.			379,048	17,478
* AquaVenture Holdings Ltd.			498,836	13,528
*.^ Bloom Energy Corp. Class A			1,553,305	11,603
*^ Atlantic Power Corp.			4,311,546	10,046
* Pure Cycle Corp.			715,159	9,004
Artesian Resources Corp. Class A			240,624	8,954
*^ Vivint Solar Inc.			1,217,502	8,839
*.^ Cadiz Inc.			798,705	8,802
RGC Resources Inc.			218,471	6,244
Genie Energy Ltd. Class B			577,349	4,463
Spark Energy Inc. Class A			405,351	3,741
* Sunnova Energy International Inc.			317,676	3,545
			_	28,902,407
Total Common Stocks (Cost \$508,641,348)				894,894,544
Preferred Stocks (0.0%) Air T Funding Pfd., 8.00%, 6/7/24 (Cost \$36)			17,271	43
			17,271	43
Temporary Cash Investments (0.6%)1				
	Coupon			
Money Market Fund (0.6%)	4.04.007		50.004.000	F 000 000
4.5 Vanguard Market Liquidity Fund	1.816%		53,284,330	5,328,966
			Face	
		Maturity	Amount	
		Date	(\$000)	
U.S. Government and Agency Obligations (0.0%)		Date	(ΦΟΟΟ)	
6 United States Treasury Bill	1.566%	2/20/20	130,000	129,731
6 United States Treasury Bill	1.527%-1.541%	4/30/20	8,000	7,959
	1.527 /0-1.541 /0	4/30/20	0,000 _	
				137,690
Total Temporary Cash Investments (Cost \$5,465,831)				5,466,656
Total Investments (100.3%) (Cost \$514,107,215)				900,361,243
Other Assets and Liabilities – Net (-0.3%) ⁵				(2,737,374)
Net Assets (100%)				897,623,869

- * Non-income-producing security.
- ^ Includes partial security positions on loan to broker-dealers. The total value of securities on loan is \$2,789,582,000.
- Security value determined using significant unobservable inputs.
- 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 0.3%, respectively, of net assets.
- 2 Considered an affiliated company of the fund as the fund owns more than 5% of the outstanding voting securities of such company.
- 3 "Other" represents securities that are not classified by the fund's benchmark index.
- 4 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day vield.
- 5 Collateral of \$2,964,698,000 was received for securities on loan, of which \$2,956,365,000 is held in Vanguard Market Liquidity Fund and \$8,333,000 is held in cash.
- 6 Securities with a value of \$122,551,000 have been segregated as initial margin for open futures contracts. CVR—Contingent Value Rights.
 - REIT—Real Estate Investment Trust.