Vanguard°

Annual Report | December 31, 2021

Vanguard Total Stock Market Index Fund

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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.

Your Fund's Performance at a Glance

- For the 12 months ended December 31, 2021, returns for Vanguard Total Stock Market Index Fund ranged from 25.59% for Investor Shares to 25.75% for Institutional Select Shares.
- The U.S. economy continued to heal over the 12 months. Vaccination programs started to roll out shortly after the beginning of the year, helping hard-hit sectors such as hospitality, leisure, and travel begin to rebound, and more workers returned to the labor force. U.S. stocks turned in a strong performance even with the spread of new COVID-19 variants, a surge in inflation, and Federal Reserve monetary policy turning less accommodative.
- 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 11 sectors recorded positive returns for the 12 months. Technology, financial, and consumer discretionary stocks contributed most to the fund's performance.

Market Barometer

	Average Annual Total Returns Periods Ended December 31, 2021			
	One Year	Three Years	Five Years	
Stocks				
Russell 1000 Index (Large-caps)	26.45%	26.21%	18.43%	
Russell 2000 Index (Small-caps)	14.82	20.02	12.02	
Russell 3000 Index (Broad U.S. market)	25.66	25.79	17.97	
FTSE All-World ex US Index (International)	8.36	13.66	9.89	
Bonds				
Bloomberg U.S. Aggregate Bond Index (Broad taxable market)	-1.54%	4.79%	3.57%	
Bloomberg Municipal Bond Index (Broad tax-exempt market)	1.52	4.73	4.17	
FTSE Three-Month U.S. Treasury Bill Index	0.05	0.95	1.11	
СРІ				
Consumer Price Index	7.04%	3.53%	2.92%	

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, 2021

	Beginning Account Value 6/30/2021	Ending Account Value 12/31/2021	Expenses Paid During Period
Based on Actual Fund Return			
Total Stock Market Index Fund			
Investor Shares	\$1,000.00	\$1,090.30	\$0.74
ETF Shares	1,000.00	1,090.80	0.16
Admiral™ Shares	1,000.00	1,090.90	0.21
Institutional Shares	1,000.00	1,090.90	0.16
Institutional Plus Shares	1,000.00	1,090.90	0.11
Institutional Select Shares	1,000.00	1,091.00	0.05
Based on Hypothetical 5% Yearly Return			
Total Stock Market Index Fund			
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	1,025.15	0.05

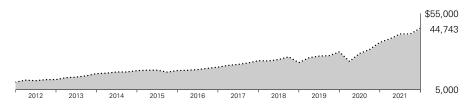
The calculations are based on expenses incurred in the most recent six-month period. The fund's annualized six-month expense ratios for that period are: 0.14% for Investor Shares, 0.03% for ETF Shares, 0.04% for Admiral Shares, 0.03% for Institutional Shares, 0.02% for Institutional Plus Shares, and 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, 2011, Through December 31, 2021 Initial Investment of \$10,000



	Average Annual Total Returns Periods Ended December 31, 2021			
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Investor Shares	25.59%	17.86%	16.16%	\$44,743
······ Spliced Total Stock Market Index	25.72	18.00	16.31	45,289

Spliced Total Stock Market Index: 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	25.72%	17.98%	16.29%	\$45,240
Total Stock Market Index Fund ETF Shares Market Price	25.64	17.97	16.29	45,245
Spliced Total Stock Market Index	25.72	18.00	16.31	45,289

Average Annual Total Retu	urns
Periods Ended December 31, 2	021

	r enous Li	remous Linded December 31, 2021			
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment	
Total Stock Market Index Fund Admiral Shares	25.71%	17.98%	16.29%	\$45,224	
Spliced Total Stock Market Index	25.72	18.00	16.31	45,289	

	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Total Stock Market Index Fund Institutional Shares	25.73%	17.99%	16.30%	\$22,632,376
Spliced Total Stock Market Index	25.72	18.00	16.31	22,644,332

	One Year	Five Years	Since Inception (4/28/2015)	Final Value of a \$100,000,000 Investment
Total Stock Market Index Fund Institutional Plus Shares	25.74%	18.01%	14.67%	\$249,417,470
CRSP US Total Market Index	25.72	18.00	14.66	249,242,800

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

	One Year	Five Years	Since Inception (6/27/2016)	Final Value of a \$5,000,000,000 Investment
Total Stock Market Index Fund Institutional Select Shares	25.75%	18.02%	19.06%	\$13,077,055,500
CRSP US Total Market Index	25.72	18.00	19.04	13,063,790,500

[&]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, 2011, Through December 31, 2021

	One Year	Five Years	Ten Years
Total Stock Market Index Fund ETF Shares Market Price	25.64%	128.50%	352.45%
Total Stock Market Index Fund ETF Shares Net Asset Value	25.72	128.61	352.40
Spliced Total Stock Market Index	25.72	128.73	352.89

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.

Fund Allocation

As of December 31, 2021

Basic Materials	2.0%
Consumer Discretionary	16.0
Consumer Staples	4.7
Energy	2.8
Financials	10.9
Health Care	12.8
Industrials	12.8
Real Estate	3.7
Technology	29.0
Telecommunications	2.6
Utilities	2.7

The table reflects the fund's investments, except for short-term investments and derivatives. 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 fund may invest in derivatives (such as futures and swap contracts) for various reasons, including, but not limited to, attempting to remain fully invested and tracking its target index as closely as possible.

Financial Statements

Schedule of Investments

As of December 31, 2021

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third quarters of each fiscal year as an exhibit to its reports on Form N-PORT. The fund's Form N-PORT reports are available on the SEC's website at www.sec.gov.

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
Comm	non Stocks (99.6%)				Ashland Global		
Pacie I	Materials (2.0%)				Holdings Inc.	1,453,857	156,522
	Linde plc	14,543,767	5,038,397		Chemours Co.	4,633,493	155,500
	Air Products and	14,545,707	3,030,337		Balchem Corp.	920,794	155,246
,	Chemicals Inc.	6,294,953	1,915,302		UFP Industries Inc.	1,670,505	153,703
	Freeport-	0,201,000	.,0.0,002		Avient Corp.	2,601,769	145,569
	McMoRan Inc.	41,735,180	1,741,609		Element		
	Ecolab Inc.	7,329,473	1,719,421		Solutions Inc.	5,977,174	145,126
	Newmont Corp.	22,661,214	1,405,448	*	Univar Solutions Inc.	4,851,470	137,539
	Dow Inc.	21,020,483	1,192,282		Timken Co.	1,941,655	134,537
	International Flavors				Commercial Metals	0.404.450	405.005
	& Fragrances Inc.	7,234,165	1,089,827		Co.	3,461,159	125,605
	Fastenal Co.	16,346,708	1,047,170		Hexcel Corp.	2,387,039	123,649
	Nucor Corp.	8,122,422	927,174		Sensient Technologies Corp.	1 105 204	119,602
	Albemarle Corp.	3,324,814	777,242	*,1	MP Materials Corp.	1,195,304 2,526,129	114,737
	LyondellBasell			*	Livent Corp.	4,581,285	114,737
	Industries NV				Mueller	4,001,200	111,092
	Class A	7,566,634	697,871		Industries Inc.	1,548,402	91,913
	Celanese Corp.	3,094,117	519,997		Cabot Corp.	1,614,227	90,720
	International Paper	44 000 000	547000	*	Arconic Corp.	2,725,301	89,962
	Co.	11,006,638	517,092		Westlake Chemical	2,720,001	00,002
4	Avery Dennison Corp.	2,352,252	509,427		Corp.	907,576	88,153
	Eastman Chemical	2,302,202	509,427	1	Quaker Chemical	001,010	22,.22
	Co.	3,821,453	462,052		Corp.	381,730	88,096
	CF Industries	3,021,433	402,032	*	Ingevity Corp.	1,121,374	80,403
	Holdings Inc.	6,096,710	431,525		Hecla Mining Co.	15,338,342	80,066
	Mosaic Co.	10,518,914	413,288		Boise Cascade Co.	1,118,842	79,662
	FMC Corp.	3.602.212	395.847		Tronox Holdings plc		
	Steel Dynamics Inc.	5.356.743	332,493		Class A	3,281,029	78,843
	Alcoa Corp.	5,318,356	316,868		NewMarket Corp.	226,927	77,772
	Reliance Steel &	-,,	,		Stepan Co.	605,635	75,274
	Aluminum Co.	1,779,532	288,676		Minerals		
*	Cleveland-Cliffs Inc.	12,790,692	278,453		Technologies Inc.	948,157	69,358
	Olin Corp.	4,077,809	234,556		GrafTech	- 040 -40	00.440
	Royal Gold Inc.	1,863,823	196,093		International Ltd.	5,613,712	66,410
	Huntsman Corp.	5,575,458	194,472		Innospec Inc.	698,841	63,133
,	Valvoline Inc.	5,117,124	190,818		Materion Corp.	580,245	53,348
:	Scotts Miracle-Gro				Compass Minerals International Inc.	967,246	49,407
	Co.	1,097,268	176,660		Worthington	307,240	43,407
	RBC Bearings Inc.	820,925	165,802		Industries Inc.	856,689	46,827
	United States Steel Corp.	6,894,514	164,158			223,000	.0,027

		Shares	Market Value• (\$000)			Shares	Market Value* (\$000)
*	GCP Applied				FutureFuel Corp.	739,753	5,652
	Technologies Inc.	1,464,593	46,369	*	NN Inc.	1,112,705	4,562
	Kaiser Aluminum	1, 10 1,000	10,000				
	Corp.	453,321	42,585	*	Eastern Co.	163,141	4,105
*	Kraton Corp.	871,582	40,372		Synalloy Corp.	237,258	3,898
	Carpenter Technology	071,302	40,372		Northern		
	Corp.	1,371,752	40,041		Technologies International Corp.	242 564	3,727
	Schnitzer Steel	1,571,752	40,041			243,564	
	Industries Inc.				Gold Resource Corp.	2,125,660	3,316
	Class A	698,597	36,271		Culp Inc.	277,660	2,641
	AdvanSix Inc.	753,607	35,608		Perma-Pipe		
*,1	Energy Fuels Inc.	4,421,625	33,737		International	262 560	2.267
*	Coeur Mining Inc.			*	Holdings Inc.	263,560	2,267
*,1		6,516,993	32,846		Universal Stainless &		0.107
*	Amyris Inc.	5,253,903	28,424	* 1	Alloy Products Inc.	278,493	2,197
	Sylvamo Corp.	1,005,492	28,043	*,1	Westwater	000 010	0.100
	Schweitzer-Mauduit	004 505	00.055		Resources Inc.	989,913	2,128
	International Inc.	901,505	26,955	*	Marrone Bio	0.040.500	0.000
*,1	Uranium Energy				Innovations Inc.	2,812,532	2,026
	Corp.	7,359,096	24,653	_	Comstock	4 400 000	4 00 4
*	Century Aluminum				Mining Inc.	1,460,392	1,884
	Co.	1,382,886	22,901		US Gold Corp.	201,077	1,802
	Glatfelter Corp.	1,275,904	21,946	*	Ampco-Pittsburgh		
	Neenah Inc.	470,344	21,768		Corp.	357,753	1,789
	Hawkins Inc.	532,230	20,996		Friedman		
	Resolute Forest				Industries Inc.	185,959	1,744
	Products Inc.	1,349,536	20,607	*,1	Golden Minerals Co.	4,469,717	1,561
	Verso Corp. Class A	740,740	20,015	*,1	PharmaCyte		
*	US Silica				Biotech Inc.	590,900	1,477
	Holdings Inc.	1,992,459	18,729	*,1	United States		
*	Koppers				Antimony Corp.	2,763,406	1,376
	Holdings Inc.	587,127	18,377	*,1	CPS Technologies		
*	TimkenSteel Corp.	1,090,490	17,993		Corp.	336,311	1,275
	Ecovyst Inc.	1,747,108	17,890	*	AgroFresh		
*	Clearwater Paper		•		Solutions Inc.	635,804	1,265
	Corp.	473,105	17,349	*	ABVC BioPharma Inc.	372,760	1,264
*	Piedmont	,	,		United-Guardian Inc.	73,036	1,198
	Lithium Inc.	326,173	17,111	*	Paramount Gold		
	Haynes	,	,		Nevada Corp.	1,225,450	856
	International Inc.	347,482	14,014	*	Hycroft Mining		
*	Gatos Silver Inc.	1,256,006	13,037		Holding Corp.	986,180	602
*,1	Origin Materials Inc.	1,949,891	12,577	*	Flexible Solutions		
	American Vanguard	1,010,001	12,077		International Inc.	151,258	588
	Corp.	749,948	12,292	*	Solitario Zinc Corp.	638,028	319
*	Intrepid Potash Inc.	283,137	12,098		Chicago Rivet &		
	Ryerson Holding	200,107	12,000		Machine Co.	11,238	295
	Corp.	434,515	11,319	*	Orbsat Corp.	50,264	162
	Omega Flex Inc.		,	*	Hycroft Mining	,	
	0	88,289	11,208		Holding Corp.		
*	Tredegar Corp.	838,057	9,906		Warrants Exp.		
*	Unifi Inc.	422,068	9,771		10/6/25	155,000	18
*	Alto Ingredients Inc.	1,951,445	9,386	*,2	Partners LP CVR	61,021	4
*	Rayonier Advanced		0.05-			, · · · -	
	Materials Inc.	1,621,220	9,257	•	.	-= -0./\	27,259,710
*,1	Zymergen Inc.	1,311,077	8,771	Cons	sumer Discretionary (
*	LSB Industries Inc.	758,771	8,384	*	Amazon.com Inc.	12,251,420	40,850,400
*	Northwest Pipe Co.	261,682	8,321	*	Tesla Inc.	22,833,680	24,130,176
*	Ur-Energy Inc.	5,846,618	7,133		Home Depot Inc.	29,677,684	12,316,536
	Olympic Steel Inc.	266,301	6,258	*	Walt Disney Co.	51,659,466	8,001,535

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Netflix Inc.	12,588,931	7,584,076	*	CarMax Inc.	4,607,433	600,026
	Costco Wholesale				Garmin Ltd.	4,370,417	595,120
	Corp.	12,557,012	7,128,616		Domino's Pizza Inc.	1,033,981	583,507
	NIKE Inc. Class B	36,315,359	6,052,681	*	Take-Two Interactive		
	Walmart Inc.	39,624,211	5,733,227		Software Inc.	3,277,010	582,390
	McDonald's Corp.	21,236,707	5,692,924		Genuine Parts Co.	4,046,954	567,383
	Lowe's Cos. Inc.	19,148,036	4,949,384	*	Carvana Co.	2,432,228	563,766
	Starbucks Corp.	33,341,115	3,899,910	*	NVR Inc.	94,045	555,700
	Target Corp.	13,616,463	3,151,394		Darden		
*	Booking				Restaurants Inc.	3,687,923	555,549
	Holdings Inc.	1,166,961	2,799,808	*	Burlington Stores Inc.	1,897,609	553,172
	TJX Cos. Inc.	32,467,240	2,464,913	*	Caesars		500 700
	Ford Motor Co.	111,552,791	2,316,951		Entertainment Inc.	5,770,573	539,722
	Estee Lauder Cos.	0.050.050	0.040.007	*,1	Rivian		
	Inc. Class A	6,256,258	2,316,067		Automotive Inc. Class A	5,021,486	520,678
	General Motors Co.	37,137,412	2,177,366		MGM Resorts	5,021,400	520,076
	Uber	44 055 050	1 704 000		International	11,329,267	508,458
	Technologies Inc.	41,355,353	1,734,030		ViacomCBS Inc.	11,020,207	000, 100
*	Dollar General Corp. Airbnb Inc. Class A	6,629,763	1,563,497		Class B	16,698,902	503,973
	Activision	9,364,259	1,559,055		Bath & Body	, ,	
	Blizzard Inc.	22,137,065	1 472 770		Works Inc.	7,134,103	497,889
*	O'Reilly	22,137,000	1,472,779	*	Live Nation		
	Automotive Inc.	1,914,787	1,352,280		Entertainment Inc.	4,151,132	496,849
*	Chipotle Mexican	1,514,767	1,002,200	*	Carnival Corp.	23,707,539	476,996
	Grill Inc.	759,588	1,327,950	*	Royal Caribbean		
*	Lululemon	,	.,,		Cruises Ltd.	6,153,089	473,173
	Athletica Inc.	3,364,407	1,316,997	*	Las Vegas Sands		
*	Marriott	, ,			Corp.	11,947,168	449,691
	International Inc.			*,1	Lucid Group Inc.	11,698,786	445,139
	Class A	7,866,848	1,299,918		Omnicom Group Inc.	6,042,274	442,717
*	Aptiv plc	7,688,486	1,268,216		Advance Auto		
*	AutoZone Inc.	595,953	1,249,350		Parts Inc.	1,772,234	425,124
*	Hilton Worldwide				LKQ Corp.	7,041,683	422,712
	Holdings Inc.	7,920,317	1,235,490		Interpublic Group of	44 400 000	440.400
	Yum! Brands Inc.	8,329,093	1,156,578		Cos. Inc.	11,193,299	419,189
	Ross Stores Inc.	10,099,477	1,154,168	*	Whirlpool Corp.	1,726,218	405,074
*	Trade Desk Inc.				United Airlines	0.106.097	102 644
	Class A	12,394,032	1,135,789	*	Holdings Inc.	9,196,987	402,644
	eBay Inc.	16,901,659	1,123,960	*,1	Wayfair Inc. Class A AMC Entertainment	2,105,495	399,981
	Electronic Arts Inc.	8,037,915	1,060,201	, '	Holdings Inc.		
	DR Horton Inc.	9,625,981	1,043,938		Class A	14,599,205	397,098
	Copart Inc.	6,066,720	919,836		PulteGroup Inc.	6,835,665	390,727
	Dollar Tree Inc.	6,394,307	898,528		Hasbro Inc.	3,724,421	379,072
	Lennar Corp. Class A	7,353,948	854,235		Vail Resorts Inc.	1,149,367	376,877
*	ROBLOX Corp.	0.045.001	050.005	*	Floor & Decor	.,,	0,0,0,,
*	Class A	8,245,691	850,625		Holdings Inc.		
	Etsy Inc.	3,604,714	789,216		Class Ă	2,850,891	370,644
*	Tractor Supply Co.	3,234,491	771,750		Williams-		
	Expedia Group Inc.	4,149,671	749,929		Sonoma Inc.	2,084,255	352,510
*	VF Corp.	10,046,410	735,598	*	Lyft Inc. Class A	8,025,249	342,919
-	Southwest Airlines	16 020 720	720 042	*	Liberty Media		
*	Co. Delta Air Lines Inc.	16,828,738	720,943 711,266		CorpLiberty		
		18,200,263	711,266		Formula One	E 070 405	000 707
*	Best Buy Co. Inc. Ulta Beauty Inc.	6,291,594	639,226	*	Class C	5,278,105	333,787
	Pool Corp.	1,544,958	637,048 612 290	-	American Airlines	10 /10 /00	220 706
	roorcorp.	1,081,785	612,290		Group Inc.	18,418,499	330,796

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Five Below Inc.	1,592,336	329,438	*	Discovery Inc.		
	Fox Corp. Class A	8,902,445	328,500		Class C	8,906,501	203,959
	Tapestry Inc.	7,820,060	317,494	*	Crocs Inc.	1,589,037	203,746
	Service Corp.	7,020,000	317,434	*	Fox Factory Holding	1,000,007	200,7.10
	International	4,452,632	316,092		Corp.	1,196,099	203,456
	Lear Corp.	1,694,167	309,948	*	YETI Holdings Inc.	2,368,395	196,174
*	SiteOne Landscape	1,004,107	303,340		Marriott Vacations	_,,	,
	Supply Inc.	1,269,760	307,637		Worldwide Corp.	1,149,662	194,270
	BorgWarner Inc.	6,815,140	307,158	*	IAA Inc.	3,832,553	194,004
	News Corp. Class A	13,395,796	298,860	*	Zynga Inc. Class A	30,250,143	193,601
*	Peloton	10,000,700	200,000	*	Alaska Air Group Inc.		185,138
	Interactive Inc.			1	Dick's Sporting	-,,-	,
	Class A	8,049,408	287,847		Goods Inc.	1,609,549	185,082
*	Deckers Outdoor				AMERCO	250,834	182,163
	Corp.	780,138	285,772		Polaris Inc.	1,641,370	180,403
*	Capri Holdings Ltd.	4,276,731	277,603	*	Scientific Games	, ,	,
*	BJ's Wholesale Club				Corp.	2,609,174	174,371
	Holdings Inc.	4,132,121	276,728	*	Goodyear Tire &		
*,1	GameStop Corp.				Rubber Co.	8,001,994	170,603
	Class A	1,847,892	274,209		Texas Roadhouse Inc		
	Aramark	7,285,002	268,452		Class A	1,880,020	167,848
*	RH	486,895	260,947	*	Helen of Troy Ltd.	686,296	167,779
	Tempur Sealy				Nexstar Media		
	International Inc.	5,471,848	257,341		Group Inc. Class A	1,104,407	166,743
	Lithia Motors Inc.	000.010	055.000	*	Skechers USA Inc.	0.040.400	400.000
	Class A	860,018	255,382		Class A	3,840,130	166,662
_	Wynn Resorts Ltd.	2,961,649	251,859		Hanesbrands Inc.	9,924,240	165,933
	Penn National Gaming Inc.	4.017607	240 702		Harley-Davidson Inc.	4,374,990	164,893
*	0	4,817,607	249,793		AutoNation Inc.	1,397,353	163,281
	DraftKings Inc. Class A	8,664,446	238,012		Choice Hotels International Inc.	1 027450	160 272
	Toll Brothers Inc.	3,286,801	237,932	*	Terminix Global	1,027,450	160,272
	Newell Brands Inc.	10,881,720	237,657		Holdings Inc.	3,445,483	155,839
	Wyndham Hotels &	10,001,720	237,037		Thor Industries Inc.	1,497,400	155,385
	Resorts Inc.	2,647,348	237,335		Fox Corp. Class B	4,478,348	153,473
	Churchill Downs Inc.	977,823	235,558		Ralph Lauren Corp.	1,247,798	148,313
	Gentex Corp.	6,721,348	234,239		Leggett & Platt Inc.	3,602,339	148,272
*	Liberty Media	0,721,040	204,200		Wingstop Inc.	849,325	146,763
	CorpLiberty			*	Boyd Gaming Corp.	2,234,229	146,498
	SiriusXM Class C	4,512,478	229,460	1	Sirius XM	2,204,220	140,430
	Macy's Inc.	8,508,465	222,752		Holdings Inc.	22,738,623	144.390
*	Norwegian Cruise			*	Endeavor Group	22,700,020	,000
	Line Holdings Ltd.	10,522,514	218,237		Holdings Inc.		
	New York Times Co.				Class A	4,128,800	144,054
	Class A	4,507,055	217,691	*,1	Chewy Inc. Class A	2,423,239	142,898
*	Avis Budget				Gap Inc.	7,996,106	141,131
	Group Inc.	1,043,053	216,298	*	Victoria's Secret &		
*	Bright Horizons				Co.	2,511,791	139,505
	Family	1 710 000	010 040		Murphy USA Inc.	692,371	137,948
	Solutions Inc.	1,716,298	216,048		Travel + Leisure Co.	2,454,604	135,666
	PVH Corp.	2,019,663	215,397	*	Hilton Grand		
*	Rollins Inc.	6,292,967	215,282		Vacations Inc.	2,554,794	133,130
-	Planet Fitness Inc.	2,368,268	21/ 510	*	Hyatt Hotels Corp.		
*	Class A Mattel Inc.	2,368,268 9,948,071	214,518		Class A	1,358,919	130,320
	Kohl's Corp.	4,279,059	214,480	*	Meritage Homes	4 000 005	400 40=
	Nielsen Holdings plc	10,201,161	211,343 209,226		Corp.	1,060,833	129,485
	Taloison Holdings pic	10,201,101	200,220		Foot Locker Inc.	2,954,785	128,917

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	JetBlue Airways			*	Ollie's Bargain Outlet		
	Corp.	9,023,337	128,492		Holdings Inc.	1,757,744	89,979
	Signet Jewelers Ltd.	1,433,117	124,724		MDC Holdings Inc.	1,607,171	89,728
	Papa John's			*	Visteon Corp.	796,525	88,526
	International Inc.	930,036	124,132	*	Frontdoor Inc.	2,408,996	88,290
*,1	QuantumScape Corp.			*	Six Flags		
	Class A	5,557,425	123,319		Entertainment Corp.	2,072,282	88,238
*	Skyline Champion			*	Tri Pointe Homes Inc.	3,157,085	88,051
	Corp.	1,534,502	121,195	*	Dorman		
	Warner Music Group	0.700.400	100.000		Products Inc.	764,391	86,384
	Corp. Class A	2,799,189	120,869		Cracker Barrel Old		
	Chegg Inc.	3,915,237	120,198		Country Store Inc.	668,715	86,024
	Wendy's Co.	5,012,904	119,558		Lennar Corp. Class B	892,929	85,382
	H&R Block Inc.	4,994,275	117,665		MillerKnoll Inc.	2,153,414	84,392
	Academy Sports &	0.050.100	110 000		Penske Automotive		
	Outdoors Inc.	2,658,122	116,692		Group Inc.	777,823	83,398
	TEGNA Inc.	6,281,171	116,579		Madison Square	470 440	00 770
	Taylor Morrison	2 210 552	116 017		Garden Sports Corp. Red Rock	476,440	82,772
	Home Corp. Class A Carter's Inc.		116,017			1 400 000	00 000
*	National Vision	1,141,463	115,539	*	Resorts Inc. Class A Gentherm Inc.		82,330 82,047
	Holdings Inc.	2,358,364	113,178	*		944,152 434,952	,
*	Asbury Automotive	2,000,004	113,170		Allegiant Travel Co. Rent-A-Center Inc.	1,692,151	81,353 81,291
	Group Inc.	644,864	111,387	*	Sabre Corp.	9,167,070	78,745
*	Under Armour Inc.		,	*	Cavco Industries Inc.	247,745	78,696
	Class C	6,124,371	110,484	*	TripAdvisor Inc.	2,842,207	77,479
1	American Eagle			*,1	Figs Inc. Class A	2,801,723	77,473
	Outfitters Inc.	4,312,685	109,197	*	Shake Shack Inc.	2,001,723	77,210
*	Callaway Golf Co.	3,966,605	108,844		Class A	1,057,169	76,285
*,1	Discovery Inc.				Qurate Retail Inc.	1,007,100	70,200
	Class A	4,580,165	107,817		Class A	9,935,944	75,513
*	Under Armour Inc.				Kontoor Brands Inc.	1,466,970	75,182
	Class A	5,084,312	107,737	*	Vista Outdoor Inc.	1,629,510	75,072
*	Sonos Inc.	3,614,846	107,722	*	Coursera Inc.	2,998,543	73,284
*	Liberty Media			*,1	PROG Holdings Inc.	1,613,112	72,767
	CorpLiberty	0 100 105	107014		Rush Enterprises Inc.	.,	,
	SiriusXM Class A	2,108,435	107,214		Class A	1,293,213	71,954
*,1	LCI Industries Luminar	682,455	106,374	*	Nordstrom Inc.	3,161,808	71,520
, '	Technologies Inc.				Century		
	Class A	6,282,706	106,241		Communities Inc.	862,906	70,577
	KB Home	2,362,961	105,695	*	Overstock.com Inc.	1,160,313	68,470
*	Leslie's Inc.	4,413,244	104,417		John Wiley &		
*	Boot Barn	., ,	,		Sons Inc. Class A	1,195,153	68,446
	Holdings Inc.	842,207	103,634		Graham Holdings Co.		
	Steven Madden Ltd.	2,198,830	102,180		Class B	107,809	67,901
	Columbia Sportswear				Winnebago Industries Inc.	004.451	67.761
	Co.	1,016,981	99,095	*		904,451	67,761
*	Grand Canyon				Spirit Airlines Inc. Wolverine World	3,099,963	67,734
	Education Inc.	1,140,456	97,748		Wide Inc.	2,342,183	67,478
*	Coty Inc. Class A	9,271,639	97,352	*,1	Fisker Inc.	4,187,755	65,873
*	LGI Homes Inc.	618,877	95,604	•	Levi Strauss & Co.	1,107,700	55,575
	Group 1	400.000	05 450		Class A	2,606,132	65,231
	Automotive Inc.	488,983	95,459	*	Revolve Group Inc.		-,
*	Dana Inc.	4,103,966	93,653		Class A	1,122,753	62,919
-	SeaWorld Entertainment Inc.	1 420 204	02 622				
	Lintertaininent IIIC.	1,428,204	92,633				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	World Wrestling			*	Central Garden & Pet		
	Entertainment Inc.				Co. Class A	931,779	44,586
	Class A	1,272,323	62,776	*	Petco Health &	,	,
*	Knowles Corp.	2,639,024	61,621		Wellness Co. Inc.		
*	Sally Beauty				Class A	2,250,688	44,541
	Holdings Inc.	3,214,705	59,343	*	Stitch Fix Inc. Class A	2,241,298	42,405
*	Abercrombie & Fitch			*	Dave & Buster's		
	Co. Class A	1,685,206	58,696		Entertainment Inc.	1,102,602	42,340
*	Houghton Mifflin	0.000.001	EQ 407		Big Lots Inc.	931,048	41,944
*	Harcourt Co. iHeartMedia Inc.	3,628,981	58,427		Franchise Group Inc.	798,414	41,645
	Class A	2,737,141	57,589		2U Inc.	2,037,494	40,893
*	SkyWest Inc.	1,427,580	56,104		Malibu Boats Inc. Class A	E04 6EE	40.071
*	Cardlytics Inc.	846,908	55,972	1	Dillard's Inc. Class A	594,655	40,871
*	Liberty Media	040,500	33,372	*,1	ContextLogic Inc.	166,498	40,795
	CorpLiberty			, .	Class A	13,114,358	40,786
	Formula One			*,1	Bed Bath &	10,111,000	10,700
	Class A	931,971	55,303		Beyond Inc.	2,727,840	39,772
*	Cheesecake			*	Adtalem Global	, ,-	,
	Factory Inc.	1,409,648	55,188		Education Inc.	1,336,028	39,493
*	Everi Holdings Inc.	2,582,987	55,147	*	Stride Inc.	1,155,222	38,504
*	Madison Square			*	Bally's Corp.	1,003,294	38,185
	Garden	702 547	EE 044	*	GoPro Inc. Class A	3,633,707	37,464
*	Entertainment Corp. KAR Auction	782,547	55,044		Sinclair Broadcast		
	Services Inc.	3,443,502	53,788		Group Inc. Class A	1,406,282	37,168
*	Bloomin' Brands Inc.	2,545,187	53,398	*	MarineMax Inc.	623,233	36,796
	Inter Parfums Inc.	497,987	53,235		Strategic	000 040	00.450
	Monro Inc.	906,491	52,821		Education Inc.	630,218	36,452
*	ODP Corp.	1,319,899	51,846	*	Buckle Inc.	850,015	35,964
*	M/I Homes Inc.	831,424	51,698		Dine Brands Global Inc.	467,022	35,405
	PriceSmart Inc.	702,559	51,406	*	XPEL Inc.	510,050	34,826
*,1	iRobot Corp.	767,039	50,533		Sturm Ruger & Co.	510,050	34,020
*	ACV Auctions Inc.		,		Inc.	497,397	33,833
	Class A	2,650,718	49,940	*	Clear Channel	107,007	00,000
	Acushnet Holdings				Outdoor		
	Corp.	939,066	49,846		Holdings Inc.	10,064,766	33,314
	HNI Corp.	1,179,369	49,592		EW Scripps Co.		
	Jack in the Box Inc.	566,861	49,589		Class A	1,705,726	33,006
*	Urban Outfitters Inc.	1,670,873	49,057	*	G-III Apparel Group	4 400 070	00.000
	Lions Gate			*,1	Ltd.	1,169,676	32,330
	Entertainment Corp. Class B	3,183,715	48,997	, '	Rover Group Inc. Class A	3,249,186	31,680
	Gray Television Inc.	2,391,838	48,219	*	Selectquote Inc.	3,480,012	31,529
*	Driven Brands	2,001,000	40,213	*	Children's Place Inc.	396,459	31,435
	Holdings Inc.	1,422,836	47,836	*	Clean Energy Fuels	000,400	01,400
*	Brinker	., .22,000	17,000		Corp.	5,058,167	31,007
	International Inc.	1,291,775	47,266		Matthews	.,,	,
*	Cinemark				International Corp.		
	Holdings Inc.	2,909,906	46,908		Class A	840,980	30,839
*	Sleep Number Corp.	612,223	46,896	*,1	Mister Car Wash Inc.	1,676,736	30,533
*	elf Beauty Inc.	1,407,008	46,727	*	Cars.com Inc.	1,865,417	30,015
	Oxford Industries Inc.	457,621	46,458	*,1	Dutch Bros Inc.		
	Camping World			_	Class A	586,836	29,876
	Holdings Inc.	1 140 500	40 457	*	Zumiez Inc.	603,962	28,984
	Class A	1,142,508	46,157	*	American Axle &		
	La-Z-Boy Inc.	1,247,649	45,302		Manufacturing Holdings Inc.	3,090,797	28,837
					i lolaniga IIIG.	5,000,707	20,007

			Market				Market
		Shares	Value• (\$000)			Shares	Value*
* 4	0 1						
*,1	Canoo Inc.	3,729,337	28,790		Aaron's Co. Inc.	894,931	22,060
	Hibbett Inc.	399,774	28,756		Arko Corp.	2,481,279	21,761
	Sonic Automotive Inc.			*,1	Clarus Corp.	775,402	21,494
	Class A	579,713	28,667	*,1	Vizio Holding Corp.	1 102 040	21 /20
*	AMC Networks Inc.	373,713	20,007	*,1	Class A Portillo's Inc. Class A	1,102,849	21,428
	Class A	830,849	28,614	*	BJ's Restaurants Inc.	569,641	21,384 21,377
*	Lions Gate	000,0.0	20,0	*		618,740	21,377
	Entertainment Corp.			*	Latham Group Inc.	851,305	21,308
	Class A	1,672,185	27,825		Purple Innovation Inc. Class A	1,599,775	21,229
	Standard Motor			*	Accel	1,555,775	21,220
	Products Inc.	525,112	27,511		Entertainment Inc.		
	Carriage				Class A	1,600,271	20,836
	Services Inc.				Scholastic Corp.	513,493	20,519
	Class A	426,478	27,482	*	Gannett Co. Inc.	3,818,003	20,350
*	Golden			*	Tupperware Brands	-,,	,
	Entertainment Inc.	542,354	27,405		Corp.	1,323,079	20,230
*	Monarch Casino &	007005	07044		Global Industrial Co.	486,761	19,909
	Resort Inc.	367,965	27,211	*	Beazer Homes		,,,,,,
_	Denny's Corp.	1,699,029	27,184		USA Inc.	830,575	19,286
	Interface Inc. Class A	1,684,351	26,865	*,1	ThredUp Inc. Class A	1,484,311	18,940
*,1	Blink Charging Co.	1,007,737	26,715		Movado Group Inc.	449,351	18,796
	Guess? Inc.	1,120,158	26,525	*	Life Time Group		
*	Liberty Media				Holdings Inc.	1,083,300	18,644
	CorpLiberty Braves Class C	040 120	26 410	*	Ruth's Hospitality		
	Steelcase Inc.	940,129	26,418		Group Inc.	929,579	18,499
	Class A	2,236,903	26,217	*	PowerSchool		
*	Genesco Inc.	407,043	26,120		Holdings Inc.		
*	Tenneco Inc. Class A	2,309,411	26,096		Class A	1,122,480	18,487
*	Green Brick	2,303,411	20,030	1	Krispy Kreme Inc.	972,532	18,400
	Partners Inc.	858,495	26,038		Laureate		
*	RealReal Inc.	2,224,204	25,823		Education Inc.	1 400 550	10 100
*	Hawaiian	2,224,204	25,025		Class A	1,480,558	18,122
	Holdings Inc.	1,397,468	25,672		America's Car-Mart Inc.	176,312	10.054
	News Corp. Class B	1,138,629	25,619	*	1-800-Flowers.com	170,312	18,054
*	Lovesac Co.	386,590	25,615		Inc. Class A	771,537	18,031
*	QuinStreet Inc.	1,392,113	25,323	*	TravelCenters of	771,007	10,001
	Smith & Wesson	.,,	,		America Inc.	347,029	17,914
	Brands Inc.	1,365,747	24,310		Winmark Corp.	72,138	17,911
*	Sun Country Airlines			*	Quotient	,	,
	Holdings Inc.	889,258	24,232		Technology Inc.	2,412,918	17,904
*	Arlo Technologies Inc.	2,276,863	23,884	*	Chico's FAS Inc.	3,319,275	17,858
*	Central Garden & Pet				RCI Hospitality	-,,	,
	Co.	453,040	23,844		Holdings Inc.	225,730	17,580
*	Thryv Holdings Inc.	579,382	23,830	*	Angi Inc. Class A	1,904,642	17,542
*	Viad Corp.	555,751	23,781	*,1	Poshmark Inc.		
*	Designer Brands Inc.				Class A	1,022,034	17,405
	Class A	1,670,792	23,742		OneWater		
*	WW				Marine Inc. Class A	282,871	17,247
	International Inc.	1,470,013	23,711		Shoe Carnival Inc.	436,102	17,043
	Caleres Inc.	1,036,100	23,499		Ethan Allen		
*	Rush Street				Interiors Inc.	647,614	17,026
	Interactive Inc.	1,412,344	23,304	*	Party City Holdco Inc.		16,887
*	Citi Trends Inc.	245,188	23,232	*	Chuy's Holdings Inc.	560,372	16,878
*,1	Corsair Gaming Inc.	1,066,340	22,404	*	Liquidity		
*	Perdoceo Education	1 004 740	00.000		Services Inc.	740,267	16,345
	Corp.	1,894,742	22,282				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Hovnanian				Entravision		
	Enterprises Inc.				Communications		
	Class A	127,447	16,223		Corp. Class A	1,674,306	11,352
*,1	Vuzix Corp.	1,706,177	14,793	1	Big 5 Sporting Goods		
*	MasterCraft Boat				Corp.	596,868	11,346
	Holdings Inc.	519,098	14,706	*,1	BARK Inc.	2,686,777	11,338
*	Integral Ad Science	050 007	44.050	*,1	Liberty Media		
	Holding Corp.	659,627	14,650		CorpLiberty Braves	200 200	11 000
	A-Mark Precious	220 005	14.000	*	Class A	390,380	11,223
*	Metals Inc.	239,095	14,609		Cooper-Standard Holdings Inc.	407250	11 1/16
	European Wax Center Inc. Class A	177510	14 404	*	Noodles & Co.	497,350	11,146
*	Stoneridge Inc.	477,548 733,128	14,494 14,472		Class A	1,186,247	10,759
*,1	Duolingo Inc. Class A	134,834	14,307	*,1	Dream Finders	1,100,217	10,700
*	Boston Omaha Corp.	134,034	14,307		Homes Inc. Class A	550,933	10,716
	Class A	487,816	14,015		Tilly's Inc. Class A	658,710	10,612
*	Stagwell Inc.	1,611,357	13,970	*	RumbleON Inc.	,	.,-
*	Funko Inc. Class A	738,271	13,880		Class B	253,143	10,511
*	Sportsman's	700,271	10,000	*,1	XL Fleet Corp.	3,139,688	10,392
	Warehouse				DelTaco		
	Holdings Inc.	1,162,482	13,717		Restaurants Inc.	826,810	10,294
*	LL Flooring			*	Kura Sushi USA Inc.		
	Holdings Inc.	802,995	13,707		Class A	120,616	9,751
*	CarParts.com Inc.	1,217,153	13,632	*	Turtle Beach Corp.	430,683	9,587
*	Fossil Group Inc.	1,319,131	13,574		Rush Enterprises Inc.		
*	AMMO Inc.	2,454,609	13,378		Class B	177,642	9,587
*	Lindblad Expeditions				Cato Corp. Class A	536,537	9,207
	Holdings Inc.	851,979	13,291	*	Century Casinos Inc.	751,313	9,151
	Haverty Furniture			*	Snap One Holdings	407050	0.040
	Cos. Inc.	430,730	13,167		Corp.	427,850	9,019
	Johnson			Ť	Sciplay Corp. Class A	652,071	8,986
	Outdoors Inc.	100 000	10.045	*	ONE Group	700.051	0.011
*	Class A	139,239	13,045	*	Hospitality Inc.	706,651	8,911
	Bluegreen Vacations Holding Corp.				Destination XL Group Inc.	1,528,407	8,681
	Class A	365,934	12,844	*	Motorcar Parts of	1,520,407	0,001
*	Janus International	000,001	12,011		America Inc.	508,491	8,680
	Group Inc.	1,023,381	12,813	*	Container Store	000,101	0,000
*,1	Sweetgreen Inc.	.,,	,		Group Inc.	863,409	8,617
	Class A	394,655	12,629	*,1	Allbirds Inc. Class A	571,448	8,617
*,1	Cricut Inc. Class A	567,341	12,533	*,1	Genius Brands	,	.,.
*	Frontier Group				International Inc.	8,048,873	8,451
	Holdings Inc.	910,699	12,358	*,1	Vinco Ventures Inc.	3,506,721	8,346
*,1	Lordstown Motors			*	Alta Equipment		
	Corp.	3,556,255	12,269		Group Inc.	568,355	8,321
*	Universal			*,1	Eastman Kodak Co.	1,773,206	8,299
	Electronics Inc.	293,728	11,969	*	Audacy Inc. Class A	3,219,968	8,275
*	Conn's Inc.	499,363	11,745	*	Holley Inc.	635,789	8,259
*	Golden Nugget			*	Lands' End Inc.	415,014	8,147
	Online Gaming Inc.	1,166,902	11,611	*,1	Traeger Inc.	665,828	8,096
	Kimball				Rocky Brands Inc.	202,930	8,077
	International Inc.	1 10/ 107	11 600	*	American Outdoor		
*	Class B Full House	1,134,107	11,602		Brands Inc.	401,980	8,011
	Resorts Inc.	952,478	11,535	*	Daily Journal Corp.	22,234	7,932
*,1	Marcus Corp.	952,478 643,540	11,535		Hooker Furnishings		
*	American Public	043,040	11,434		Corp.	333,634	7,767
	Education Inc.	511,008	11,370	*,1	Udemy Inc.	388,908	7,599
		5,000	,0,0				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
		Silaies	(\$000)	*		Silaies	(\$000)
	Superior Group of Cos. Inc.	336,688	7,387	*	Lakeland Industries Inc.	219,969	4,773
*,1	Esports Technologies Inc.	357,232	7,345		Flexsteel Industries Inc.	176,856	4,750
*	Build-A-Bear Workshop Inc.	370,870	7,239		National CineMedia Inc.		4,712
*	El Pollo Loco		·	*	Aterian Inc.	1,676,816 1,142,716	4,697
	Holdings Inc.	506,628	7,189	*	Townsquare		
*,1	1847 Goedeker Inc.	2,939,372	7,055		Media Inc. Class A	336,709	4,488
	Red Robin Gourmet Burgers Inc.	426,022	7,042		Liberty TripAdvisor Holdings Inc.		
*	Barnes & Noble Education Inc.	1,030,888	7,020	*,1	Class A Shift	2,050,097	4,449
*,1	F45 Training		·	,	Technologies Inc.	1,302,731	4,442
	Holdings Inc. Tile Shop	644,113	7,014		Bassett Furniture Industries Inc.	264,538	4,436
	Holdings Inc.	961,063	6,852	1	JOANN Inc.	423,780	4,399
*	Universal Technical	001,000	0,002	*,1	Focus Universal Inc.	493,800	4,375
	Institute Inc.	863,741	6,754	*,1	CuriosityStream Inc.	728,847	4,322
*,1	Arcimoto Inc.	839,472	6,531	*	VOXX International	, 20,0	.,022
*	Lazydays				Corp. Class A	421,895	4,291
	Holdings Inc.	302,067	6,507	*	Strattec Security		
*,1	Weber Inc. Class A	497,623	6,434		Corp.	115,520	4,277
	Lifetime Brands Inc.	397,860	6,354	*	First Watch		
_	Lincoln Educational Services Corp.	842,781	6,296		Restaurant Group Inc.	250,998	4,207
*	Vera Bradley Inc.	727,256	6,189	*,1	Brilliant Earth	200,000	7,207
*	Legacy Housing	727,250	0,109		Group Inc. Class A	231,495	4,181
	Corp.	233,301	6,175	*,1	Rent the Runway Inc.		
*	Nerdy Inc.	1,316,500	5,924		Class A	509,942	4,156
*,1	Ondas Holdings Inc.	877,371	5,887	*	Casper Sleep Inc.	596,360	3,984
*	XpresSpa Group Inc.	2,891,324	5,840		Nathan's Famous Inc.	66 657	2 002
*	Fiesta Restaurant	500 077		*,1	Reservoir Media Inc.	66,657 489,336	3,892 3,871
* 4	Group Inc.	503,077	5,539	, .	Weyco Group Inc.	150,356	3,600
*,1 *,1	Kirkland's Inc. Solo Brands Inc.	368,678	5,504		Escalade Inc.	225,800	3,565
,,	Class A	352,117	5,504		Wayside Technology	220,000	0,000
*	Nautilus Inc.	897,105	5,499		Group Inc.	100,234	3,514
*	Xponential	,	,	*	Drive Shack Inc.	2,362,238	3,378
	Fitness Inc. Class A	266,864	5,455	*	Outbrain Inc.	240,155	3,362
*	Express Inc.	1,747,660	5,383	*	Potbelly Corp.	601,878	3,358
*	Arhaus Inc. Class A	405,773	5,377	*	Tuesday Morning	4 405 407	0.044
*	PlayAGS Inc.	787,936	5,350	*	Corp.	1,465,187	3,341
*	Cumulus Media Inc. Class A	460 461	E 201		Wheels Up Experience Inc.	708,381	3,287
*	Delta Apparel Inc.	469,461 177,059	5,281 5,266		Hamilton Beach	, 00,001	0,207
*	Mesa Air Group Inc.	931,159	5,200		Brands Holding Co.		
*,1	Cinedigm Corp.	331,133	5,215		Class A	228,579	3,282
	Class A	4,433,038	5,142		Marine Products	255 246	2 102
*	Lee Enterprises Inc.	144,656	4,996	*	Corp. Gaia Inc. Class A	255,346 367,401	3,192 3,149
*,1	Faraday Future Intelligent			*	iMedia Brands Inc.	512,961	3,149
*	Electric Inc.	930,089	4,948		Saga Communications		
	Duluth Holdings Inc. Class B	324,610	4,928		Inc. Class A	127,309	3,057
*,1	CarLotz Inc.	2,116,825	4,805	*	Biglari Holdings Inc. Class A	4,330	3,009

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
		Sildies	(\$000)				(\$000)
	Carrols Restaurant	4 000 447	0.000	*	JAKKS Pacific Inc.	116,504	1,184
*,1	Group Inc.	1,009,447	2,988	*	Salem Media	270 202	1 100
, '	Redbox Entertainment Inc.	402,900	2,986	*	Group Inc. Class A	370,322	1,133
*	Chicken Soup For The	402,900	2,900	*	Live Ventures Inc.	34,139	1,076
	Soul			*,1	Zovio Inc. Class A	827,480	1,051
	Entertainment Inc.	211,224	2,923	*	Koss Corp.	96,440	1,030
	Acme United Corp.	85,199	2,871	*	FlexShopper Inc.	425,184	999
*	Urban One Inc.	844,838	2,864		Volcon Inc.	83,500	902
*	Superior Industries	,	,		CompX International Inc.	38,137	857
	International Inc.	622,847	2,790	*,1	Digital Media	30,137	037
*	Emerald Holding Inc.	690,955	2,743		Solutions Inc.	173,744	831
*	Biglari Holdings Inc.				NL Industries Inc.	109,805	813
	Class B	18,772	2,676	*	Harte Hanks Inc.	102,600	780
*	SRAX Inc. Class A	591,097	2,654	*	Ark Restaurants	.02,000	, 00
*	Landsea Homes				Corp.	42,468	707
	Corp.	356,896	2,612	*,1	Troika Media	•	
*,1	HyreCar Inc.	526,051	2,478		Group Inc.	595,828	697
*,1	Revlon Inc. Class A	214,200	2,429	*	Digital Brands		
*	BBQ Holdings Inc.	152,057	2,415		Group Inc.	296,678	682
*,1	Hall of Fame Resort			*,1	Vince Holding Corp.	85,410	680
	& Entertainment	4 404 454	0.000	*,1	InterGroup Corp.	12,233	661
	Co.	1,464,451	2,226	*	Canterbury Park		
	NextPlay	0.400.470	0.004		Holding Corp.	35,941	620
*	Technologies Inc. Fluent Inc.	2,436,472	2,084	*,1	Mullen		
*,1	J. Jill Inc.	1,044,952	2,079		Automotive Inc.	117,454	614
*,1		108,388	2,079	*	Beasley Broadcast	044 500	504
, 1	BurgerFi International Inc.	362,697	2,057	*	Group Inc. Class A	314,502	594
*	Dixie Group Inc.	344,452	1,974		Instructure	22 242	557
*	Travelzoo	204,643	1,928	*,1	Holdings Inc. Allied Esports	23,243	557
*,1	LiveOne Inc.	1,461,313	1,870	,,	Entertainment Inc.	298,452	510
*	Regis Corp.	1,043,845	1,816	*	Urban One Inc.	230,432	510
	Educational	1,043,043	1,010		Class A	107,488	500
	Development Corp.	202,269	1,804	*,1	EzFill Holdings Inc.	348,800	481
*	Charles & Colvard	202,200	1,001	*	Motorsport	0.0,000	
	Ltd.	610,246	1,764		Games Inc. Class A	138,235	470
*	StoneMor Inc.	770,131	1,756	*,1	Auddia Inc.	264,100	470
*,1	Red Cat Holdings Inc.	844,136	1,756	*	aka Brands Holding	,	
*	Luby's Inc.	600,620	1,718		Corp.	45,691	423
*,1	Dolphin			*	Lulu's Fashion		
	Entertainment Inc.	199,020	1,696		Lounge		
*,1	Owlet Inc.	625,636	1,670		Holdings Inc.	36,667	375
	FAT Brands Inc.			*,1	Lottery.com Inc.	58,000	369
	Class A	153,984	1,631	*,1	Mediaco Holding Inc.		
*	GoodTimes				Class A	67,571	362
	Restaurants Inc.	350,945	1,523	*,1 *	Muscle Maker Inc.	487,573	351
*	Aspen Group Inc.	638,706	1,507		PARTS iD Inc.	138,518	338
*,1	LMP Automotive	0.40		*	Reading		
	Holdings Inc.	210,630	1,472		International Inc.	92 226	227
	Crown Crafts Inc.	197,670	1,437	*,1	Class A	83,326	337 302
*,1	AYRO Inc.	891,109	1,435	, 1	Amesite Inc. Jerash Holdings	292,757	302
*,1	Envela Corp.	343,551	1,398		Jerash Holdings US Inc.	43,903	284
*	Marchex Inc. Class B	546,577	1,356	*	Kaspien Holdings Inc.	23,810	252
	DallasNews Corp.	176,590	1,270	*	Grom Social	23,010	202
*	Kewaunee Scientific	07040	1 0 4 4		Enterprises Inc.	134,277	242
	Corp.	97,612	1,244		o.poo iiio.	, _ , ,	212

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
						Ondres	(4000)
*,1	Applied UV Inc.	86,071	232		McCormick & Co.	7006 120	604 603
	Forward Industries Inc.	144,468	225		Inc. (Non-Voting) Brown-Forman Corp.	7,086,139	684,592
1	FAT Brands Inc.	144,400	225		Class B	9,005,018	656,106
	Class B	16,647	224		Clorox Co.	3,493,193	609,073
*	Torrid Holdings Inc.	16,980	168		AmerisourceBergen	0,400,100	000,070
*	Xcel Brands Inc.	151,456	165		Corp.	4,137,284	549,804
*	Unique	101,400	100		Kellogg Co.	7,272,263	468,479
	Fabricating Inc.	79,983	157		Conagra Brands Inc.	13,637,110	465,707
*	Virco Manufacturing	70,000	107		J M Smucker Co.	2,924,160	397,159
	Corp.	38,418	118		Hormel Foods Corp.	7,710,013	376,326
*	Flanigan's				Bunge Ltd.	3,793,451	354,157
	Enterprises Inc.	3,749	116	*	Darling	0,700,101	001,107
*	Moving Image				Ingredients Inc.	4,598,916	318,659
	Technologies Inc.	40,290	85		Lamb Weston	1,000,010	0.0,000
*,2	Zagg Inc. CVR	780,631	70		Holdings Inc.	4,152,473	263,184
*,2	SRAX Inc.	590,641	47		Campbell Soup Co.	5,581,045	242,552
*	Rave Restaurant				Molson Coors	-,,-	_ :=,===
	Group Inc.	21,026	21		Beverage Co.		
*	Summer Infant Inc.	522	5		Class B	5,134,011	237,961
*,2	resTORbio Inc. CVR	70,194	_		Casey's General		
		· -	210 214 246		Stores Inc.	1,055,817	208,366
Cama			218,314,246	*	Performance Food		
Cons	sumer Staples (4.7%)				Group Co.	4,378,630	200,935
	Procter & Gamble Co.	60 774 406	11 250 122	*	US Foods Holding		
	PepsiCo Inc.	68,774,496 39,294,953	11,250,132		Corp.	5,688,259	198,122
	Coca-Cola Co.		6,825,926	*	Post Holdings Inc.	1,599,854	180,352
	Philip Morris	110,482,879	6,541,691		Ingredion Inc.	1,796,611	173,625
	International Inc.	44,245,226	4,203,297		Flowers Foods Inc.	5,408,573	148,574
	CVS Health Corp.			*	Boston Beer Co. Inc.		
	Mondelez	37,517,401	3,870,295		Class A	260,452	131,554
	International Inc.				Spectrum Brands		
	Class A	39,640,610	2,628,569		Holdings Inc.	1,172,286	119,245
	Altria Group Inc.	52,205,320	2,474,010		Sanderson		
	Colgate-Palmolive	02,200,020	2,171,010		Farms Inc.	602,792	115,182
	Co.	23,947,429	2,043,674	*	Freshpet Inc.	1,169,456	111,414
	Kimberly-Clark Corp.		1,367,675	*	Herbalife Nutrition	0.740.000	440.050
	General Mills Inc.	17,213,544	1,159,849		Ltd.	2,710,803	110,953
	Sysco Corp.	14,571,218	1,144,569		Hain Celestial	0.500.707	400 400
	Constellation	,0, .,2.10	.,,000	* 1	Group Inc.	2,562,737	109,198
	Brands Inc. Class A	4,435,351	1,113,140	*,1	Beyond Meat Inc.	1,616,714	105,345
	Walgreens Boots	,,	, .,		Simply Good Foods Co.	2 452 206	101,946
	Alliance Inc.	20,913,653	1,090,856		WD-40 Co.	2,452,396	,
	McKesson Corp.	4,329,765	1,076,250	*	Sprouts Farmers	390,101	95,434
	Archer-Daniels-				Market Inc.	3,195,645	94,847
	Midland Co.	15,902,225	1,074,831		Lancaster Colony	3,133,043	34,047
*	Monster Beverage				Corp.	547,995	90,748
	Corp.	10,527,725	1,011,083		Coca-Cola	347,333	30,740
	Corteva Inc.	20,754,473	981,272		Consolidated Inc.	132,113	81,803
	Kroger Co.	19,025,330	861,086	*	United Natural	102,110	01,000
	Keurig Dr Pepper Inc	. 22,167,787	817,105		Foods Inc.	1,648,698	80,918
	Hershey Co.	4,131,631	799,347	*	Hostess Brands Inc.	, = . = , 0 0 0	20,0.0
	Tyson Foods Inc.				Class A	3,932,404	80,300
	Class A	8,376,405	730,087	*	Celsius Holdings Inc.	1,064,986	79,416
	Church & Dwight Co				Primo Water Corp.	4,328,024	76,303
	Inc.	6,940,931	711,445		Energizer	,,	. 0,000
	Kraft Heinz Co.	19,154,502	687,647		Holdings Inc.	1,901,802	76,262
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		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	N. Chin	Ondroo	(4000)		Nationala Consalcina	Ondroo	(4000)
	Nu Skin Enterprises Inc.				Nature's Sunshine Products Inc.	789,554	14,607
	Class A	1,418,629	71,995	1	PetMed Express Inc.	568,993	14,373
*	Beauty Health Co.	2,977,847	71,945	*,1	22nd Century	300,333	14,575
	Edgewell Personal	2,077,017	7 1,0 10	, .	Group Inc.	4,628,765	14,303
	Care Co.	1,547,480	70,735		Tootsie Roll	.,020,700	,000
*,1	Grocery Outlet	, - ,	-,		Industries Inc.	391,887	14,198
	Holding Corp.	2,459,571	69,557	*	Honest Co. Inc.	1,426,618	11,541
	Medifast Inc.	314,128	65,788	*	Whole Earth	.,,	,
*	TreeHouse Foods Inc.	1,588,167	64,368		Brands Inc.	1,037,374	11,141
1	B&G Foods Inc.	1,846,771	56,751	*	Sovos Brands Inc.	716,600	10,785
*	Olaplex Holdings Inc.	1,832,868	53,391	*	Veru Inc.	1,770,928	10,431
	J & J Snack Foods	, ,	,	*	Vital Farms Inc.	520,595	9,402
	Corp.	326,028	51,499	*	Benson Hill Inc.	1,265,490	9,225
	Reynolds Consumer			*,1	HF Foods Group Inc.	1,087,920	9,204
	Products Inc.	1,475,996	46,346		Oil-Dri Corp. of	.,,.	-,
	Vector Group Ltd.	3,721,616	42,724		America	263,293	8,618
	Cal-Maine Foods Inc.	1,130,220	41,807	*	Landec Corp.	714,876	7,935
*	Pilgrim's Pride Corp.	1,391,177	39,231	*	Seneca Foods Corp.	, -	,
	Universal Corp.	667,177	36,641		Class A	162,229	7,779
	Ingles Markets Inc.			*,1	AppHarvest Inc.	1,904,283	7,408
	Class A	406,165	35,068		Limoneira Co.	451,596	6,774
	MGP Ingredients Inc.	405,852	34,493		Alico Inc.	149,534	5,537
*	USANA Health				Village Super	, , , ,	-,
	Sciences Inc.	332,532	33,652		Market Inc. Class A	219,880	5,143
	Andersons Inc.	844,343	32,685		Natural Grocers by		
*	Chefs'				Vitamin Cottage Inc.	317,495	4,524
	Warehouse Inc.	970,749	32,326	*,1	Local Bounti Corp.	617,326	3,982
*,1	BellRing Brands Inc.			*,1	NewAge Inc.	3,820,555	3,935
	Class A	1,115,843	31,835	*,1	Vita Coco Co. Inc.	315,970	3,529
	Weis Markets Inc.	459,818	30,293	*,1	Alkaline Water Co.		
	Utz Brands Inc.	1,891,544	30,170		Inc.	2,698,649	3,184
1	National Beverage			*	Lifevantage Corp.	500,965	3,166
	Corp.	656,795	29,773	*	Farmer Bros Co.	415,167	3,093
	Fresh Del Monte			*,1	AquaBounty		
	Produce Inc.	1,013,637	27,976		Technologies Inc.	1,307,824	2,746
*	Hydrofarm Holdings	004.070	00.450	*	Natural Alternatives		
	Group Inc.	934,972	26,450		International Inc.	197,375	2,495
	Seaboard Corp.	6,616	26,034	*,1	LifeMD Inc.	621,308	2,404
*,1	SpartanNash Co.	970,540	25,001	*,1	Laird Superfood Inc.	182,168	2,376
~,1	Duckhorn Portfolio Inc.	076 272	22 700	*,1	Zevia PBC Class A	333,732	2,353
		976,373	22,789	*	Blue Apron		
	John B Sanfilippo & Son Inc.	251,600	22,684		Holdings Inc.	0.4.00=	0.047
*	Rite Aid Corp.	1,482,120	21,772		Class A	344,335	2,317
	ACCO Brands Corp.	2,592,751	21,772	*,1	Beachbody Co. Inc.	968,258	2,295
	Calavo Growers Inc.	478,378			ProPhase Labs Inc.	303,130	2,173
*	GrowGeneration	4/0,3/0	20,283	*	Urban-Gro Inc.	189,972	1,991
	Corp.	1,467,130	19,146	*,1	Greenlane		
*,1	Tattooed Chef Inc.	1,407,130	18,458		Holdings Inc. Class A	2 011 004	1 020
, .	Brown-Forman Corp.	1,107,742	10,400	*		2,011,084	1,939
	Class A	259,279	17,577	*	Nuzee Inc.	410,002	1,697
	Turning Point	200,270	17,077		S&W Seed Co.	576,492	1,574
	Brands Inc.	456,482	17,246		AMCON Distributing Co.	6,105	1,218
*,1	PLBY Group Inc.	646,732	17,229	*	Rocky Mountain	0, 100	1,218
*	Mission Produce Inc.	1,001,161	15,718		Chocolate		
	22.2	, ,	. 3,7 . 0		Factory Inc.	152,787	1,192
					,	,	.,.02

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Mannatech Inc.	30,953	1,186		Coterra Energy Inc.	23,124,856	439,372
*	Willamette Valley	,	,		Marathon Oil Corp.	22,133,274	363,428
	Vineyards Inc.	130,770	1,135		Targa Resources		
	Ocean Bio-Chem Inc	. 124,500	1,083		Corp.	6,507,505	339,952
*	Coffee Holding Co.	000 004	4 000		APA Corp.	10,326,651	277,684
*	Inc. Real Good Food Co.	230,234	1,002		Ovintiv Inc.	7,422,687	250,145
	Inc. Class A	157,843	988		First Solar Inc.	2,720,101	237,084
*	Reed's Inc.	2,530,478	908		EQT Corp. Texas Pacific Land	10,744,643	234,341
*,1	MedAvail	2,000,0	000		Corp.	176,157	219,997
	Holdings Inc.	629,749	882		Chesapeake Energy	170,107	210,007
*,1	Calyxt Inc.	333,863	711		Corp.	2,924,725	188,703
*	Better Choice Co.			*	NOV Inc.	11,120,234	150,679
	Inc.	197,337	637		HollyFrontier Corp.	4,157,470	136,282
-	Eastside Distilling Inc.	2/1 007	612		PDC Energy Inc.	2,768,909	135,067
*	Guardion Health	341,987	012	*	Southwestern		404.000
	Sciences Inc.	787,758	510	*	Energy Co.	28,904,087	134,693
*	Arcadia	,			Antero Resources Corp.	7,587,733	132,785
	Biosciences Inc.	483,138	503		DT Midstream Inc.	2,749,231	131,908
*	Bridgford Foods			*	Range Resources	2,7 .0,20 .	.0.,000
	Corp.	39,983	465		Corp.	7,018,074	125,132
*	MamaMancini's	205 001	416	*,1	ChargePoint		
*	Holdings Inc. Yield10	205,991	416		Holdings Inc.	6,419,977	122,301
	Bioscience Inc.	75,975	374		Equitrans Midstream		100 755
*	Lifeway Foods Inc.	45,393	214		Corp. Civitas	11,678,401	120,755
*	RiceBran				Resources Inc.	2,377,588	116,430
	Technologies	560,464	195	*	ChampionX Corp.	5,752,265	116,253
*	Zivo Bioscience Inc.	62,634_	180		Matador Resources	, , , , , ,	-,
			64,495,877		Co.	3,003,844	110,902
Energ	gy (2.8%)				Murphy Oil Corp.	4,175,145	109,013
	Exxon Mobil Corp.	120,319,130	7,362,328	*	Denbury Inc.	1,353,732	103,682
	Chevron Corp.	54,784,484	6,428,959		SM Energy Co.	3,454,445	101,837
	ConocoPhillips	37,485,339	2,705,692		California Resources Corp.	2,285,489	97,613
	EOG Resources Inc.		1,477,175		Antero Midstream	2,200,400	37,013
	Schlumberger NV Pioneer Natural	39,874,353	1,194,237		Corp.	8,820,351	85,381
	Resources Co.	6,246,129	1,136,046		Magnolia Oil & Gas		,
	Marathon Petroleum		1,100,010		Corp. Class A	4,390,416	82,847
	Corp.	17,496,110	1,119,576	*,1	Stem Inc.	3,902,594	74,032
	Kinder Morgan Inc.	57,991,542	919,746	*	Arcosa Inc.	1,372,884	72,351
	Phillips 66	12,455,848	902,551		Shoals Technologies Group Inc. Class A	2 060 592	72,161
	Valero Energy Corp.	11,614,485	872,364	*	Whiting Petroleum	2,969,583	72,101
	Williams Cos. Inc.	33,153,587	863,319		Corp.	1,107,029	71,603
	Devon Energy Corp.	19,233,799	847,249	*	CNX Resources	, - ,-	,
	ONEOK Inc.	12,678,056	744,963		Corp.	5,108,559	70,243
	Occidental Petroleun Corp.	25,206,963	730,750	*	Ameresco Inc.		
	Cheniere Energy Inc		657,879		Class A	858,200	69,892
*	Enphase Energy Inc.		631,430		Continental Resources Inc.	1 560 025	60 927
	Hess Corp.	7,923,192	586,554		Oasis Petroleum Inc.	1,560,025 534,448	69,827 67,335
	Baker Hughes Co.	23,525,253	566,018	*	Callon Petroleum Co.		65,933
	Diamondback				Helmerich &	.,===,000	30,000
	Energy Inc.	5,149,710	555,396		Payne Inc.	2,770,002	65,649
*	Halliburton Co.	24,185,025	553,112		Cactus Inc. Class A	1,677,887	63,978
	Plug Power Inc.	16,387,798	462,628				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Renewable Energy		_	*	Bristow Group Inc.		
	Group Inc.	1,432,078	60,777		Class A	644,164	20,401
*	Array			*	Dril-Quip Inc.	1,016,414	20,003
	Technologies Inc.	3,647,281	57,226	*	Comstock		
*,1	FuelCell Energy Inc.	9,902,701	51,494		Resources Inc.	2,272,847	18,387
*,1	SunPower Corp.	2,455,269	51,241	*	Nabors Industries		
*	Green Plains Inc.	1,446,539	50,282	*	Ltd.	208,953	16,944
*	Weatherford				CONSOL Energy Inc.	735,685	16,707
	International plc	1,794,387	49,740	*,1	Montauk	4 004 440	40.047
1	New Fortress	0.057700	40.074		Renewables Inc.	1,624,116	16,647
	Energy Inc. Class A	2,057,729	49,674		Berry Corp.	1,936,014	16,301
	World Fuel Services Corp.	1,698,033	44.947	*	SunCoke Energy Inc.	2,368,439	15,608
	Patterson-UTI	1,030,033	44,347		Centrus Energy Corp. Class A	310,367	15,490
	Energy Inc.	5,216,876	44,083	*	Ranger Oil Corp.	570,189	15,349
*	Transocean Ltd.	15,701,779	43,337	*	MRC Global Inc.	2,220,526	15,277
	Arch Resources Inc.	435,409	39,762	*	TPI Composites Inc.	982,532	14,699
	Warrior Met Coal Inc.		37,811	*	REX American	902,002	14,099
*,1	Tellurian Inc.	11,565,108	35,621		Resources Corp.	150,951	14,491
*	PBF Energy Inc.	11,505,100	00,021		CVR Energy Inc.	855,403	14,379
	Class A	2,732,636	35,442	*	Talos Energy Inc.	1,284,887	12,592
	Northern Oil &	2,702,000	00,112	*	Helix Energy	1,204,007	12,002
	Gas Inc.	1,715,318	35,301		Solutions Group Inc.	3,988,209	12,443
*	Liberty Oilfield	, -,-	,	*	Tidewater Inc.	1,081,354	11,581
	Services Inc.			*	Select Energy	.,	,
	Class A	3,408,195	33,059		Services Inc.		
	Archrock Inc.	4,390,845	32,844		Class A	1,858,281	11,577
*	Oceaneering			*,1	Aemetis Inc.	805,835	9,912
	International Inc.	2,859,768	32,344	*	RPC Inc.	2,163,613	9,823
*	Delek US			*	SandRidge		
	Holdings Inc.	2,122,957	31,823		Energy Inc.	920,016	9,623
	Centennial Resource			*	TETRA		
	Development Inc. Class A	E 262 E26	21 476		Technologies Inc.	3,298,148	9,367
*	Fluence Energy Inc.	5,263,526	31,476	*	Earthstone		
	Class A	845,919	30,081		Energy Inc. Class A	834,701	9,132
*	Peabody Energy	043,313	30,001	*,1	Crescent Energy Inc.	000 000	0.007
	Corp.	2,896,192	29,165	*	Class A	696,896	8,837
	Core Laboratories NV		29,021	*	W&T Offshore Inc.	2,683,486	8,668
*	Alpha Metallurgical	.,,			Oil States International Inc.	1,675,598	8,328
	Resources Inc.	443,333	27,065	*,1	Volta Inc.	1,075,536	7,995
*	NOW Inc.	3,119,549	26,641	*	American	1,009,200	7,333
*	Laredo				Superconductor		
	Petroleum Inc.	437,939	26,333		Corp.	699,725	7,613
	Brigham			*	Newpark		.,
	Minerals Inc.				Resources Inc.	2,465,453	7,248
	Class A	1,223,920	25,812	*	FTS International Inc.		
*,1	Noble Corp.	1,027,335	25,488		Class A	274,859	7,215
*,1	Gevo Inc.	5,448,564	23,320	*	SilverBow		
*	Gulfport Energy	004.005	00.400		Resources Inc.	320,799	6,984
	Corp.	321,805	23,180	*,1	EVgo Inc.	684,200	6,801
*	DMC Global Inc.	530,714	21,022	*,1	Camber Energy Inc.	7,107,332	6,041
*	Par Pacific	1 004 050	00.040	1	Altus Midstream Co.	96,236	5,900
*	Holdings Inc.	1,264,259	20,848	*	Trecora Resources	711,814	5,751
*	NexTier Oilfield Solutions Inc.	E 061 075	20.010	*,1	Advent Technologies		
*		5,861,975	20,810		Holdings Inc.	804,755	5,641
	ProPetro Holding Corp.	2,528,442	20,480	*	Matrix Service Co.	742,386	5,583
	ου.p.	2,020,442	20,400				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Solaris Oilfield			*	MIND		
	Infrastructure Inc.				Technology Inc.	491,883	817
	Class A	851,953	5,580	*	Profire Energy Inc.	598,754	635
*	Ramaco			*,1	KLX Energy Services	,	
	Resources Inc.	376,500	5,120		Holdings Inc.	186,512	578
*	VAALCO Energy Inc.	1,573,656	5,051	*	Mammoth Energy		
	Falcon Minerals				Services Inc.	307,258	559
	Corp.	1,004,143	4,890	*,1	ION Geophysical		
*,1	Ring Energy Inc.	2,080,950	4,745		Corp.	615,545	542
	NACCO			*	PEDEVCO Corp.	460,492	488
	Industries Inc.	405 544	4.550	*	Independence		
*,1	Class A	125,541	4,556		Contract Drilling Inc.	129,345	388
7,1	Beam Global	225,421	4,193	*,1	New Concept	454.000	007
	Natural Gas Services Group Inc.	270 602	3,964	*,1	Energy Inc.	154,300	367
	Evolution Petroleum	378,603	3,904	, 1	Nine Energy Service Inc.	222 516	222
	Corp.	784,579	3,962	*		332,516	332
*,1					Nabors Industries Ltd. Warrants Exp.		
*	NextDecade Corp.	1,303,072	3,714		6/11/26	70,676	264
*	FTC Solar Inc.	470,149	3,554	*	US Energy Corp.	70,070	204
	Amplify Energy Corp.	859,535	2,673		Wyoming	73,862	242
*,1	American Resources	1 110 050	0.000	*	Stabilis Solutions Inc.		188
	Corp.	1,448,956	2,608	*		43,009	100
_	Geospace	205.000	0.500		NCS Multistage Holdings Inc.	5,982	173
*	Technologies Corp.	385,060	2,588	*	Tidewater Inc.	5,362	1/3
	Sunworks Inc.	763,794	2,345		Class A Warrants		
	Flotek Industries Inc.	1,911,170	2,160		Exp. 7/31/23	8,839	5
*,1	Ocean Power	1 400 100	0.105	*	Tidewater Inc.	0,000	9
	Technologies Inc.	1,436,122	2,125		Class B Warrants		
_	Exterran Corp.	707,599	2,109		Exp. 7/31/23	9,555	3
Ĵ	Battalion Oil Corp.	207,283	2,031	*,1,2	Harvest Natural	,,,,,,	
	Epsilon Energy Ltd.	355,787	2,017		Resources Inc.	51,829	_
	Adams Resources &	07010	4 004	*,1	FTS International Inc.		
	Energy Inc.	67,642	1,881		Warrants Exp.		
	Ranger Energy				11/19/23	22,671	_
	Services Inc. Class A	170 540	1,844			_	38,467,534
*	Ideal Power Inc.	179,548 149,114	1,044	Einar	ncials (10.8%)		30,407,334
*	SEACOR Marine	143,114	1,730	*	Berkshire		
	Holdings Inc.	507,121	1,724		Hathaway Inc.		
*,1	ESS Tech Inc.	147,986	1,693		Class B	48,225,937	14,419,555
, .	PHX Minerals Inc.	766,499	1,663		JPMorgan Chase &	,,	, ,
*	Ecoark Holdings Inc.				Co.	83,988,235	13,299,537
*,1	iSun Inc.	703,727 262,173	1,569		Bank of America	, ,	.,,
*	PrimeEnergy	202,173	1,563		Corp.	197,709,410	8,796,092
	Resources Corp.	21 626	1 402			113,321,790	5,437,179
*	Gulf Island	21,626	1,493		Morgan Stanley	40,798,842	4,004,814
	Fabrication Inc.	372,057	1,492		Charles Schwab	,,	.,
*	Forum Energy	372,037	1,432		Corp.	43,757,082	3,679,971
	Technologies Inc.	89,925	1,443		Goldman Sachs		
*	Hallador Energy Co.	579,365	1,425		Group Inc.	9,533,979	3,647,224
*	Capstone Green	0,0,000	1,720		BlackRock Inc.	3,885,635	3,557,532
	Energy Corp.	344,624	1,144		Citigroup Inc.	56,391,721	3,405,496
*	Smart Sand Inc.	618,977	1,102		S&P Global Inc.	6,849,223	3,232,354
*,1	US Well Services Inc.	010,077	1,102		Blackstone Inc.	19,521,962	2,525,947
,.	Class A	895,941	1,030		Marsh & McLennan	-,,	,, ,
*	Dawson Geophysical	000,041	1,000		Cos. Inc.	14,348,153	2,493,996
	Co.	420,698	974		PNC Financial	,	
		-,			Services Group Inc.	12,010,806	2,408,407

	Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
CME Group Inc.	10,215,056	2,333,732		FactSet Research		
Truist Financial Corp.	37,928,163	2,220,694		Systems Inc. Cincinnati Financial	1,069,802	519,934
Exchange Inc.	16,010,771	2,189,793		Corp.	4,352,185	495,844
US Bancorp	37,925,164	2,130,256		Brown & Brown Inc.	6,822,503	479,486
Chubb Ltd.	10,405,274	2,011,444	*	Markel Corp.	388,240	479,088
Aon plc Class A	5,949,029	1,788,040	*	Berkshire		
Moody's Corp.	4,490,534	1,753,913		Hathaway Inc.		
Progressive Corp.	16,608,682	1,704,881		Class A	1,051	473,646
MSCI Inc.	2,226,044	1,363,875		Ally Financial Inc.	9,846,914	468,812
American International	2,220,044	1,000,070	*	Arch Capital Group Ltd.	10,424,414	463,365
Group Inc.	23,599,107	1,341,845		Signature Bank	1,418,801	458,940
T. Rowe Price	20,000,107	1,011,010		Apollo Asset		
Group Inc.	6,387,721	1,256,081		Management Inc. MarketAxess	6,234,076	451,534
Bank of New York	21 124 622	1 226 010		Holdings Inc.	1,026,900	422,333
Mellon Corp.	21,124,633	1,226,919		Fidelity National	.,020,000	.22,000
KKR & Co. Inc.	15,795,030	1,176,730		Financial Inc.	7,679,797	400,732
Prudential Financial Inc.	10,740,838	1,162,588		Choe Global	,	,
* SVB Financial Group				Markets Inc.	3,029,409	395,035
MetLife Inc.	1,668,009	1,131,310		Equitable		
	17,930,203	1,120,458		Holdings Inc.	11,511,808	377,472
Travelers Cos. Inc.	6,991,414	1,093,667		Loews Corp.	6,126,880	353,889
First Republic Bank	5,088,465	1,050,819		LPL Financial		
Arthur J Gallagher & Co.	E 901 200	000 560		Holdings Inc.	2,164,186	346,465
Aflac Inc.	5,891,200	999,560		Carlyle Group Inc.	6,079,507	333,765
	16,920,915	988,012		Lincoln National		
Discover Financial Services	8,330,088	062 625		Corp.	4,880,883	333,169
Ameriprise	0,330,000	962,625		Ares Management		
Financial Inc.	3,180,155	959,326		Corp. Class A	4,048,954	329,058
Allstate Corp.	8,146,969	958,491		Comerica Inc.	3,728,720	324,399
* Coinbase Global Inc.	0,140,303	330,431		Annaly Capital		
Class A	3,750,497	946,513		Management Inc.	41,142,564	321,735
Fifth Third Bancorp	19,434,478	846,372	*	Athene Holding Ltd.		
Willis Towers Watson		010,072		Class A	3,822,576	318,535
plc	3,541,684	841,115		East West		
Nasdag Inc.	3,326,160	698,527		Bancorp Inc.	4,033,493	317,355
State Street Corp.	7,300,767	678,971		W R Berkley Corp.	3,765,001	310,198
Northern Trust Corp.	5,607,132	670,669		Everest Re Group	4 440 000	000 470
Hartford Financial	0,007,102	0,0,000		Ltd.	1,118,860	306,478
Services Group Inc.	9,674,667	667,939		Western Alliance	0.010.051	202 022
Huntington	-,- ,	,,,,,,		Bancorp	2,813,951	302,922
Bancshares Inc.	41,112,365	633,953		Tradeweb Markets Inc.		
KeyCorp	26,461,232	612,048		Class A	2,985,306	298,949
Broadridge Financial		0.=,0.0		Franklin	2,365,300	230,343
Solutions Inc.	3,312,162	605,529		Resources Inc.	8,564,594	286,828
Regions Financial	-,- ,	,			0,004,004	200,020
Corp.	27,105,395	590,898		American Financial Group Inc.	2,046,578	281,036
Citizens Financial		•		Zions Bancorp NA	4,447,949	280,932
Group Inc.	12,114,193	572,396	*,1	SoFi	4,447,343	200,332
M&T Bank Corp.	3,657,449	561,711	, .	Technologies Inc.	17,196,053	271,870
Principal Financial				Invesco Ltd.	11,802,080	271,670
Group Inc.	7,533,780	544,918		Assurant Inc.	1,618,971	252,333
Raymond James		•				
Financial Inc.	5,273,097	529,419	*	First Horizon Corp.	15,365,123	250,912
			*	Alleghany Corp.	369,779	246,861
				Upstart Holdings Inc.	1,630,582	246,707

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Globe Life Inc.	2,586,301	242,388		Wintrust Financial		
	First American	, ,	,		Corp.	1,621,326	147,249
	Financial Corp.	2,962,815	231,781		Kinsale Capital		
	Morningstar Inc.	673,698	230,398		Group Inc.	616,377	146,630
	AGNC Investment				CIT Group Inc.	2,812,456	144,391
	Corp.	14,894,178	224,008		Webster Financial	0.530.550	440.075
	RenaissanceRe	4 000 450	004 540		Corp.	2,576,552	143,875
	Holdings Ltd.	1,308,156	221,510		New Residential Investment Corp.	12 252 100	141,942
	SEI Investments Co.	3,565,874	217,304	*,1	Credit Acceptance	13,253,198	141,942
	People's United Financial Inc.	12,166,689	216,810	, .	Corp.	206,217	141,811
	Commerce	12,100,000	210,010		Sterling Bancorp	5,484,248	141,439
	Bancshares Inc.	3,117,858	214,322		Selective Insurance	-,,	,
	Reinsurance Group	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, -		Group Inc.	1,709,589	140,084
	of America Inc.	1,921,747	210,412		Erie Indemnity Co.		
	Voya Financial Inc.	3,158,599	209,447		Class A	722,007	139,102
	Cullen/Frost				Blackstone Mortgage		
	Bankers Inc.	1,628,534	205,309		Trust Inc. Class A	4,521,143	138,437
	Old Republic				RLI Corp.	1,222,251	137,014
	International Corp.	8,285,987	203,670		Trupanion Inc.	1,034,070	136,528
	Janus Henderson	4 040 475	202 245		Essent Group Ltd.	2,985,528	135,931
	Group plc Jefferies Financial	4,848,475	203,345		First Citizens BancShares Inc.		
	Group Inc.	5,233,530	203,061		Class A	162,416	134,779
	Starwood Property	3,233,330	203,001		United	102,410	154,775
	Trust Inc.	8,232,975	200,061		Bankshares Inc.	3,687,105	133,768
	Interactive Brokers	., . ,	,		MGIC Investment	,,,,,,	
	Group Inc. Class A	2,514,881	199,732		Corp.	9,252,544	133,422
	Stifel Financial Corp.	2,813,917	198,156		Lazard Ltd. Class A	3,041,343	132,694
	Pinnacle Financial				Unum Group	5,233,902	128,597
	Partners Inc.	2,056,226	196,370		Evercore Inc. Class A	942,795	128,079
	First Financial				UMB Financial Corp.	1,169,394	124,084
	Bankshares Inc.	3,846,987	195,581		Walker & Dunlop Inc.	819,811	123,693
	Synovus Financial	2 020 745	100 117		Hanover Insurance		
	Corp.	3,929,745	188,117		Group Inc.	910,754	119,363
	Affiliated Managers Group Inc.	1,097,879	180,612		Umpqua Holdings	C 1EO 017	110 220
	Prosperity	1,007,070	100,012		Corp.	6,150,217	118,330
	Bancshares Inc.	2,486,041	179,741		Axis Capital Holdings Ltd.	2,170,226	118,212
	Glacier Bancorp Inc.	3,146,050	178,381		ServisFirst	2,170,220	110,212
	Popular Inc.	2,129,164	174,677		Bancshares Inc.	1,387,609	117,864
	Primerica Inc.	1,122,369	172,025	*	Brighthouse		
1	Blue Owl Capital Inc.				Financial Inc.	2,271,871	117,683
	Class A	11,522,581	171,802		Hancock Whitney		
	OneMain				Corp.	2,346,496	117,372
	Holdings Inc.	3,311,140	165,689		Community Bank	4 505 700	44.4.000
	SLM Corp.	8,333,532	163,921	*	System Inc.	1,535,739	114,382
	Bank OZK	3,506,828	163,173		Silvergate Capital Corp. Class A	765 620	113,465
	Cadence Bank	5,473,997	163,070		Jackson Financial Inc.	765,620	113,400
	Valley National Bancorp	11,576,034	159,170		Class A	2,645,650	110,668
	SouthState Corp.	1,983,629	158,909		FNB Corp.	9,078,611	110,124
	PacWest Bancorp	3,334,427	150,616		Moelis & Co. Class A	1,733,538	108,363
	Houlihan Lokev Inc.	0,00 +, +2 /	100,010		Radian Group Inc.	5,104,001	107,848
	Class A	1,449,608	150,063		Pacific Premier	., . ,	, 0
	New York	,	.,		Bancorp Inc.	2,684,452	107,459
	Community				BankUnited Inc.	2,535,673	107,284
	Bancorp Inc.	12,109,549	147,858				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	1 1 1 1 1 1 1	0.10.00	(4000)	-	1: 01	0110100	(4000)
	Independent Bank Corp. (XNGS) Home	1,279,794	104,342	*	Live Oak Bancshares Inc. Mr Cooper	919,156	80,233
	BancShares Inc.	4,190,065	102,028		Group Inc.	1,918,280	79,820
	Chimera Investment				CVB Financial Corp.	3,663,017	78,425
	Corp.	6,731,256	101,507		Fulton Financial Corp.	4,593,721	78,093
	Kemper Corp.	1,714,796	100,813	*	Focus Financial		
	First Hawaiian Inc.	3,665,045	100,166		Partners Inc. Class A	1,291,491	77,128
	Federated Hermes Inc.			*	Enstar Group Ltd.	309,763	76,694
	Class B	2,617,417	98,363		Atlantic Union		,
	Eastern	4 701 747	00.440		Bankshares Corp.	2,044,466	76,238
	Bankshares Inc. Investors	4,781,747	96,448	*	Cannae Holdings Inc. Independent Bank	2,155,209	75,756
	Bancorp Inc.	6,349,236	96,191		Group Inc.	1,037,848	74,881
	Bank of Hawaii Corp.	1,141,133	95,581		Arbor Realty	, , -	,
	Assured Guaranty				Trust Inc.	4,086,847	74,871
	Ltd.	1,887,645	94,760		Santander Consumer		
	Ameris Bancorp	1,881,890	93,492		USA Holdings Inc.	1,738,846	73,066
	United Community	0.504.040	00.000		Columbia Banking	0.000.405	70.000
	Banks Inc.	2,584,316	92,880		System Inc.	2,230,435	72,980
	Hamilton Lane Inc. Class A	895,240	02.765	*,1	Flagstar Bancorp Inc.	1,492,858	71,568
	Navient Corp.	4,342,323	92,765 92,144	, !	Riot Blockchain Inc. International	3,130,662	69,908
	Virtu Financial Inc.	4,042,020	32,144		Bancshares Corp.	1,631,611	69,164
	Class A	3,193,682	92,074	*	LendingClub Corp.	2,839,709	68,664
	Simmons First				WSFS Financial Corp.	1,354,514	67,888
	National Corp.				First Midwest	, , .	,,,,,,
	Class A	3,103,579	91,804		Bancorp Inc.	3,249,439	66,549
	American Equity				Goosehead		
	Investment Life Holding Co.	2,358,312	91,785		Insurance Inc.	E00 00E	CE 000
	Associated	2,000,012	31,703		Class A PennyMac Financial	506,625	65,902
	Banc-Corp	4,058,866	91,690		Services Inc.	921,384	64,294
*,1	Marathon Digital				First Merchants Corp.	1,533,512	64,239
	Holdings Inc.	2,771,433	91,069		Cohen & Steers Inc.	685,110	63,380
	Cathay General			*	Ryan Specialty Group	,	,
	Bancorp	2,088,588	89,788		Holdings Inc.		
	Texas Capital Bancshares Inc.	1 440 270	96 777		Class A	1,560,631	62,971
	Piper Sandler Cos.	1,440,278 483,168	86,777 86,250		First Financial	0.550.335	00.400
	Old National Bancorp	4,721,695	85,557		Bancorp	2,550,775	62,188
*	Axos Financial Inc.	1,524,050	85,210		Washington Federal Inc.	1,857,844	62,015
	Artisan Partners	1,02 1,000	00,210		Stewart Information	1,007,044	02,015
	Asset				Services Corp.	763,906	60,906
	Management Inc.	4 705 704	0.4.4.0		Virtus Investment		
	Class A	1,765,721	84,119		Partners Inc.	204,227	60,676
	CNO Financial Group Inc.	3,508,722	83,648	*	Open Lending Corp.	0.004.705	00 540
	White Mountains	3,500,722	03,040		Class A	2,691,725	60,510
	Insurance Group				StepStone Group Inc. Class A	1 440 674	E0 000
	Ltd.	81,371	82,502		WesBanco Inc.	1,440,674 1,710,258	59,889 59,842
	BOK Financial Corp.	781,531	82,444	*	PRA Group Inc.	1,710,236	59,642
	FirstCash				Sandy Spring	1,104,720	55,400
	Holdings Inc.	1,089,590	81,512		Bancorp Inc.	1,233,859	59,324
*	Triumph Bancorp Inc.	678,064	80,744		Hilltop Holdings Inc.	1,680,850	59,065
	First Bancorp (XNYS)	5,853,909	80,667		Towne Bank	1,859,617	58,745

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Genworth Financial Inc.			*	FB Financial Corp. Palomar	1,019,593	44,679
	Class A	14,438,103	58,474		Holdings Inc.	685,031	44,369
	Renasant Corp.	1,508,208	57,236	*,1	Lemonade Inc.	1,050,809	44,250
	MFA Financial Inc.	12,539,036	57,178	*,1	Lightwave Logic Inc.	2,936,371	43,693
	Park National Corp.	415,805	57,094		First Commonwealth	2,000,071	43,033
	Two Harbors	+10,000	37,004		Financial Corp.	2,707,427	43,562
	Investment Corp.	9,814,212	56,628		Stock Yards	2,707,427	43,302
	Banner Corp.	926,473	56,209		Bancorp Inc.	678,700	43,355
	Seacoast Banking	320,473	50,203		Redwood Trust Inc.		
	Corp. of Florida	1,579,873	55,912			3,249,083	42,855
*	BRP Group Inc.	1,575,675	55,512		BGC Partners Inc. Class A	9,188,420	42 726
	Class A	1,536,370	55,478		Class A Capitol Federal	9,100,420	42,726
	Lakeland Financial	1,550,570	55,476		Financial Inc.	2 724 162	42.105
	Corp.	685,895	54,968			3,724,163	42,195
	Heartland Financial	000,000	54,300		B. Riley Financial Inc.	472,236	41,963
	USA Inc.	1 002 002	E4 0E6		Mercury General	707004	41.004
		1,083,893	54,856		Corp.	787,864	41,804
	Argo Group International			*,1	Encore Capital	000 170	
	Holdings Ltd.	943,733	54,840		Group Inc.	668,173	41,500
*	Customers	343,733	54,640		Westamerica	740.004	44 405
		920 452	E4 221		Bancorp	718,604	41,485
1	Bancorp Inc.	829,452	54,221		First Busey Corp.	1,494,322	40,526
	Rocket Cos. Inc. Class A	2 020 264	E2 E06		New York Mortgage		
	Great Western	3,828,264	53,596		Trust Inc.	10,806,302	40,199
		1 576 115	E3 E3E	*	Enova		
*	Bancorp Inc.	1,576,115	53,525		International Inc.	974,802	39,928
	NMI Holdings Inc.	2 440 204	E0 001	*	LendingTree Inc.	320,186	39,255
	Class A	2,440,304	53,321		ProAssurance Corp.	1,537,853	38,908
	Veritex Holdings Inc.	1,334,578	53,090		Ladder Capital Corp.	3,222,288	38,635
	Eagle Bancorp Inc.	904,631	52,776		OFG Bancorp	1,420,708	37,734
	Apollo Commercial				Southside		
	Real Estate	0.070.000	E0 000		Bancshares Inc.	874,150	36,557
	Finance Inc.	3,973,380	52,290		National Bank		
	Trustmark Corp.	1,601,426	51,982		Holdings Corp.		
	Meta Financial	005.050	40.004		Class A	820,912	36,071
	Group Inc.	825,250	49,234		OceanFirst Financial		
	Compass Diversified	4 500 700	40.705		Corp.	1,594,500	35,398
	Holdings	1,593,700	48,735		Berkshire Hills		
	Northwest	0.400.050	40.470		Bancorp Inc.	1,238,529	35,211
	Bancshares Inc.	3,423,252	48,473	*	Bancorp Inc.	1,382,276	34,985
	iStar Inc.	1,875,980	48,457		Safety Insurance		
	Provident Financial	4 000 457	10.105		Group Inc.	405,870	34,511
	Services Inc.	1,986,157	48,105		Brookline		
	Hope Bancorp Inc.	3,255,243	47,885		Bancorp Inc.	2,101,275	34,020
	PennyMac Mortgage				Broadmark Realty		
	Investment Trust	2,755,444	47,752		Capital Inc.	3,574,729	33,710
	First Bancorp (XNGS)	1,014,431	46,380		S&T Bancorp Inc.	1,066,198	33,607
	Enterprise Financial				City Holding Co.	409,598	33,501
	Services Corp.	978,006	46,054		ConnectOne		
	First Interstate				Bancorp Inc.	1,001,268	32,751
	BancSystem Inc.				BancFirst Corp.	463,100	32,676
	Class A	1,126,818	45,828		Premier Financial	,	-2,0.0
	Nelnet Inc. Class A	468,564	45,769		Corp.	1,054,389	32,591
	PJT Partners Inc.				Federal Agricultural	.,00.,000	02,001
	Class A	616,117	45,648		Mortgage Corp.		
	Horace Mann				Class C	262,217	32,497
	Educators Corp.	1,171,060	45,320		TriCo Bancshares	755,079	32,438
	NBT Bancorp Inc.	1,172,929	45,181		23 24.100.14.00	. 55,5.0	02, .00

		Chana	Market Value•			Classes	Market Value•
		Shares	(\$000)			Shares	(\$000)
	Employers	750.040	04.400		Univest Financial	700.000	00.005
	Holdings Inc.	759,018	31,408		Corp.	799,960	23,935
	Metropolitan Bank	007700	20.050		QCR Holdings Inc.	421,137	23,584
*	Holding Corp.	287,792	30,658		Peoples Bancorp Inc.	724,102	23,034
	World Acceptance Corp.	123,784	30,380	*	Blucora Inc.	1,315,554	22,785
	Dime Community	123,704	30,360		First Bancshares Inc.	576,125	22,250
	Bancshares Inc.	862,098	30,311		Horizon Bancorp Inc.	1,050,994	21,913
	AMERISAFE Inc.	552,756	29,755	*	Columbia	1 0 4 0 0 0 4	01 000
	Tompkins Financial	002,700	20,700		Financial Inc.	1,046,664	21,833
	Corp.	355,647	29,725		TPG RE Finance Trust Inc.	1,747,225	21,526
	Banc of California Inc.		29,520		Central Pacific	1,747,220	21,520
*	Amerant	.,,			Financial Corp.	762,219	21,472
	Bancorp Inc.				WisdomTree	702,210	21,772
	Class A	843,985	29,160		Investments Inc.	3,504,056	21,445
	James River Group			*	Ambac Financial	0,001,000	21,110
	Holdings Ltd.	999,441	28,794		Group Inc.	1,317,492	21,146
	HomeStreet Inc.	553,013	28,757	*	MBIA Inc.	1,322,743	20,886
	TFS Financial Corp.	1,605,671	28,693		Hanmi Financial	1,022,710	20,000
	Allegiance				Corp.	867,122	20,533
	Bancshares Inc.	665,894	28,107	*	SiriusPoint Ltd.	2,525,100	20,529
*	Nicolet				First Mid	2,020,100	20,020
	Bankshares Inc.	324,999	27,869		Bancshares Inc.	477,568	20,435
*	StoneX Group Inc.	450,490	27,593	*	Clearwater Analytics	177,000	20, 100
	Origin Bancorp Inc.	638,790	27,417		Holdings Inc.		
	Preferred Bank	379,480	27,243		Class A	883,787	20,309
*,1	Oscar Health Inc.				HarborOne		
	Class A	3,469,287	27,234		Bancorp Inc.	1,367,499	20,294
	First Foundation Inc.	1,087,378	27,032		Flushing Financial		
	Cowen Inc. Class A	736,215	26,577		Corp.	829,044	20,146
	German American	,	-,-		KKR Real Estate		
	Bancorp Inc.	681,395	26,561		Finance Trust Inc.	951,886	19,828
	BrightSpire				Great Southern		
	Capital Inc. Class A	2,573,284	26,402		Bancorp Inc.	332,068	19,675
	State Auto Financial				HCI Group Inc.	233,340	19,493
	Corp.	509,902	26,357		Republic		
	Lakeland				Bancorp Inc.		
	Bancorp Inc.	1,371,817	26,051		Class A	383,393	19,492
	Washington Trust				Northfield		
	Bancorp Inc.	460,207	25,942		Bancorp Inc.	1,206,028	19,489
	Ready Capital Corp.	1,651,372	25,811		Heritage Commerce		
	Kearny Financial				Corp.	1,597,415	19,073
	Corp.	1,928,359	25,551		Community Trust	100 100	10.000
	Bryn Mawr Bank				Bancorp Inc.	436,138	19,020
	Corp.	566,925	25,517		Camden National	202 212	10.004
	Ellington				Corp.	392,310	18,894
	Financial Inc.	1,481,380	25,317	_	MoneyGram	0.050.001	10.015
	Brightsphere				International Inc.	2,359,261	18,615
	Investment	004005	05.000		Hingham Institution	40.050	10 161
	Group Inc.	984,365	25,200	*	For Savings	43,253	18,161
	ARMOUR Residential	0 550 005	25.050		CrossFirst Bankshares Inc.	1,158,387	10 002
	REIT Inc.	2,553,805	25,053		Granite Point	1,100,007	18,082
	Heritage Financial	1 016 770	24.050		Mortgage Trust Inc.	1,528,156	17,895
	Corp.	1,016,779	24,850		Byline Bancorp Inc.		17,695
	Invesco Mortgage	0 06E 10A	24 645			644,447	
*	Capital Inc.	8,865,124	24,645		Cambridge Bancorp	187,772	17,574
	TriState Capital Holdings Inc.	QN2 1N2	2/1 202		TrustCo Bank Corp.	526,680	17,544
	Holulings IIIC.	803,103	24,302				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Diamond Hill				Waterstone		
	Investment				Financial Inc.	600,218	13,121
	Group Inc.	87,521	16,999	*	Coastal Financial		,
	Peapack-Gladstone				Corp.	257,862	13,053
	Financial Corp.	471,663	16,697		HomeTrust		
	United Fire				Bancshares Inc.	417,531	12,935
	Group Inc.	714,294	16,564		Mid Penn		
	Farmers National				Bancorp Inc.	407,174	12,924
	Banc Corp.	892,687	16,559	*	Oportun Financial		
1	Dynex Capital Inc.	985,744	16,472		Corp.	636,646	12,892
	Bank of Marin				Southern Missouri		
	Bancorp	434,472	16,175		Bancorp Inc.	243,725	12,715
	Victory Capital				First Financial Corp.	280,502	12,704
	Holdings Inc.				Arrow Financial Corp.	352,689	12,425
	Class A	440,974	16,109		West Bancorp Inc.	399,157	12,402
1	Orchid Island	0.400.404	45.004		First Internet		
	Capital Inc.	3,480,164	15,661		Bancorp	263,312	12,386
	Business First	E40.001	15 544		1st Source Corp.	247,039	12,253
*	Bancshares Inc.	549,061	15,544		Regional		
	eHealth Inc.	600,680	15,317		Management Corp.	211,580	12,157
	CBTX Inc.	525,056	15,227		CNB Financial Corp.	455,730	12,077
1	UWM Holdings Corp.	0.500.000	15.005		Bar Harbor		
	Class A	2,568,383	15,205		Bankshares	412,183	11,924
	Reliant Bancorp Inc.	423,923	15,049	*	Carter		
	Atlantic Capital Bancshares Inc.	515,287	14 025		Bankshares Inc.	742,589	11,428
		515,287	14,825		RBB Bancorp	435,114	11,400
	Equity Bancshares Inc.			1	GCM Grosvenor Inc.		44.000
	Class A	432,117	14,662		Class A	1,068,829	11,223
	Financial	102,117	11,002		National Western Life	E0 070	11 000
	Institutions Inc.	450,618	14,330		Group Inc. Class A	52,273	11,209
	Independent Bank	.00,010	,000		American National Bankshares Inc.	206 922	11 10/
	Corp.	598,641	14,290		MVB Financial Corp.	296,822	11,184
	Mercantile Bank	,	,		SmartFinancial Inc.	267,198	11,094
	Corp.	403,858	14,147	1	Farmers &	401,450	10,984
	Midland States			•	Merchants		
	Bancorp Inc.	564,694	13,999		Bancorp Inc.	333,453	10,947
*	AssetMark Financial				Enterprise	000,100	.0,0 .,
	Holdings Inc.	533,665	13,987		Bancorp Inc.	243,685	10,946
	First Community			*	Bridgewater	-,	-,-
	Bankshares Inc.	415,227	13,877		Bancshares Inc.	610,919	10,807
	Metrocity	100 000	40 747		Citizens & Northern		
	Bankshares Inc.	499,338	13,747		Corp.	409,413	10,694
	Bank First Corp.	189,999	13,726		Spirit of Texas		
	Universal Insurance	700.017	10 500		Bancshares Inc.	371,555	10,693
	Holdings Inc.	798,817	13,580		Sierra Bancorp	393,731	10,690
	Merchants Bancorp	285,856	13,530		Shore		
	Blue Foundry	021 106	12 476		Bancshares Inc.	509,859	10,631
*	Bancorp	921,106	13,476	*	EZCORP Inc. Class A	1,440,775	10,619
	Southern First Bancshares Inc.	215,321	13,455		First Bancorp Inc.	327,356	10,279
	First of Long Island	210,321	13,433		Capstar Financial		
	Corp.	622,402	13,438		Holdings Inc.	488,695	10,277
	Sculptor Capital	022,402	10,400		Primis Financial Corp.	682,667	10,267
	Management Inc.				Alerus Financial Corp.	348,804	10,213
	Class A	617,684	13,188		Old Second		
*	Franklin BSP Realty	,	,		Bancorp Inc.	798,040	10,047
	Trust Inc.	878,283	13,122	*,1	Romeo Power Inc.	2,747,187	10,027
				*,1	Root Inc. Class A	3,207,770	9,944

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Oppenheimer		(4222)	-	First Business		(4000)
	Holdings Inc.				Financial		
	Class A	213,217	9,887		Services Inc.	228,040	6,652
	Civista				BCB Bancorp Inc.	430,285	6,639
	Bancshares Inc.	398,946	9,734		LCNB Corp.	335,339	6,549
	Capital City Bank				Meridian Corp.	177,937	6,543
	Group Inc.	359,714	9,496	1	Fidelity D&D		
	Peoples Financial				Bancorp Inc.	110,302	6,508
	Services Corp.	179,285	9,447		Bankwell Financial		
	MidWestOne				Group Inc.	195,386	6,416
	Financial Group Inc.	286,575	9,276	*	Professional Holding		
	Guaranty	0.45 400	0.005		Corp. Class A	330,335	6,329
	Bancshares Inc.	245,483	9,225		AG Mortgage		
	Curo Group Holdings	ooo	0.010		Investment		
	Corp.	575,636	9,216		Trust Inc.	615,108	6,305
	Summit Financial	000 040			National		
	Group Inc.	330,919	9,084		Bankshares Inc.	173,594	6,295
	Howard Bancorp Inc.	413,346	9,007		Capital Bancorp Inc.	238,721	6,254
	Five Star Bancorp	293,908	8,817		Parke Bancorp Inc.	290,867	6,190
	Home Bancorp Inc.	205,685	8,538		HBT Financial Inc.	330,067	6,182
1	Blue Ridge				Donegal Group Inc.		
	Bankshares Inc.	456,364	8,169		Class A	429,838	6,142
	Tiptree Inc. Class A	590,045	8,160		Community Financial		
	South Plains				Corp.	155,233	6,102
	Financial Inc.	292,506	8,135		Timberland		
*	Ocwen Financial				Bancorp Inc.	219,929	6,092
	Corp.	201,053	8,036	*	FVCBankcorp Inc.	305,180	6,046
*	Citizens Inc. Class A	1,512,237	8,030		Richmond Mutual		
	AFC Gamma Inc.	351,716	8,005		Bancorp Inc.	362,105	5,834
	Provident				Central Valley		
	Bancorp Inc.	429,658	7,992		Community		
	Great Ajax Corp.	606,670	7,984		Bancorp	277,797	5,770
*	P10 Inc. Class A	568,705	7,950	*	Esquire Financial		
	Orrstown Financial				Holdings Inc.	181,815	5,749
	Services Inc.	307,627	7,752		Territorial	000 440	E 740
	Northrim				Bancorp Inc.	226,146	5,710
	Bancorp Inc.	176,916	7,689		Codorus Valley	000 070	F 000
	Red River				Bancorp Inc.	262,970	5,680
	Bancshares Inc.	141,840	7,588		Unity Bancorp Inc.	216,027	5,671
	PCSB Financial Corp.	391,041	7,445		OP Bancorp	444,270	5,669
	Investors Title Co.	37,598	7,412		Ames National Corp.	229,764	5,627
	FS Bancorp Inc.	219,893	7,395	*	Maiden Holdings Ltd.	1,833,912	5,612
	First Bank	503,770	7,310		Crawford & Co.		
	Northeast Bank	203,338	7,265		Class B	746,601	5,592
	ACNB Corp.	230,161	7,199		Level One		
	Independence				Bancorp Inc.	139,890	5,517
	Holding Co.	125,453	7,111	*	BayCom Corp.	288,027	5,403
	Marlin Business				Greenhill & Co. Inc.	299,465	5,369
	Services Corp.	304,596	7,091		Evans Bancorp Inc.	133,161	5,366
1	PCB Bancorp	317,360	6,969		Colony Bankcorp Inc.	311,012	5,309
	Macatawa Bank			*	Consumer Portfolio		
	Corp.	784,729	6,921		Services Inc.	445,159	5,275
*	GoHealth Inc.			*,1	Hagerty Inc. Class A	363,800	5,159
	Class A	1,801,058	6,826	*	MainStreet		
	1st Constitution				Bancshares Inc.	208,509	5,127
	Bancorp	263,385	6,766		Norwood Financial		
	Amalgamated				Corp.	197,002	5,120
	Financial Corp.	399,627	6,702				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	01 : 0 5: : :	Silares	(4000)		F: 0	Silares	(\$000)
	ChoiceOne Financial Services Inc.	100 470	E 000		First Community	100 150	2.065
*		192,470	5,099		Corp. Franklin Financial	186,158	3,865
	MetroMile Inc.	2,327,223	5,097		Services Corp.	117,076	3,863
*	C&F Financial Corp.	99,227	5,079	*	California Bancorp	192,397	3,856
*	NI Holdings Inc.	266,088	5,032	1	First National Corp.	167,836	3,835
	Greenlight Capital Re Ltd. Class A	636,481	4,990	•	Hawthorn	107,030	3,035
*	First Western	030,461	4,330		Bancshares Inc.	147,849	3,819
	Financial Inc.	163,419	4,961		First Capital Inc.	95,554	3,817
	Sachem Capital Corp.	847,514	4,949	*	Medallion Financial	00,004	0,017
	Investar Holding	0+7,51+	4,040		Corp.	650,658	3,774
	Corp.	262,066	4,825		Westwood Holdings	,	-,
	Western New	,	.,===		Group Inc.	222,721	3,773
	England				First Financial		
	Bancorp Inc.	541,360	4,742		Northwest Inc.	223,305	3,611
*,1	Sunlight Financial				Citizens Community		
	Holdings Inc.	984,228	4,705		Bancorp Inc.	260,601	3,588
	Bank of Princeton	159,711	4,684		SB Financial		
	Pzena Investment				Group Inc.	183,208	3,567
	Management Inc.	100 701	4.070		First United Corp.	188,149	3,550
	Class A	493,761	4,676	1	Angel Oak	040.000	0.500
	Riverview	000 040	4.070		Mortgage Inc.	216,030	3,539
*	Bancorp Inc.	608,040	4,676		Manning &	404.000	0.504
*	Doma Holdings Inc.	918,684	4,667		Napier Inc. Class A	421,693	3,504
	Republic First Bancorp Inc.	1 250 257	4 GE1		Nexpoint Real Estate Finance Inc.	177,897	3,425
	William Penn	1,250,257	4,651	*	Arlington Asset	177,097	3,420
	Bancorp	375,356	4,534		Investment Corp.		
	Virginia National	070,000	1,001		Class A	964,778	3,377
	Bankshares Corp.	122,415	4,529		Western Asset		-,
	Plumas Bancorp	133,540	4,512		Mortgage Capital		
	Chemung Financial	,-	, -		Corp.	1,575,362	3,324
	Corp.	98,140	4,493		BankFinancial Corp.	308,169	3,288
*	Trean Insurance				Seven Hills Realty		
	Group Inc.	501,844	4,471		Trust	315,585	3,276
	ESSA Bancorp Inc.	253,876	4,400	*,1	MarketWise Inc.	433,550	3,269
	First Savings				Greene County		
	Financial Group Inc.	165,222	4,362		Bancorp Inc.	88,584	3,255
*	Pioneer Bancorp Inc.	382,436	4,329	*	HMN Financial Inc.	133,193	3,247
	Penns Woods	100 101	4.047		CB Financial	100.007	2 202
	Bancorp Inc.	183,161	4,317	1	Services Inc.	132,867	3,202
	Silvercrest Asset			'	Ellington Residential Mortgage REIT	304,308	3,162
	Management Group Inc. Class A	247,747	4,254		First Guaranty	304,300	3,102
	FNCB Bancorp Inc.	465,590	4,242		Bancshares Inc.	155,128	3,162
	Eagle Bancorp	405,550	4,242	*	Malvern Bancorp Inc.	201,577	3,159
	Montana Inc.	184,128	4,231		Peoples Bancorp of	201,077	0,100
	First Northwest	101,120	1,201		North Carolina Inc.	113,193	3,123
	Bancorp	209,090	4,230	*	Velocity Financial Inc.	225,504	3,089
1	Federal Agricultural		.,200		Salisbury	,00.	3,000
	Mortgage Corp.				Bancorp Inc.	58,032	3,069
	Class A	35,555	4,221	*	ACRES Commercial	*	
1	Cherry Hill Mortgage				Realty Corp.	245,355	3,060
	Investment Corp.	510,083	4,218	*,1	Bakkt Holdings Inc.	356,200	3,031
	Luther Burbank Corp.	294,907	4,140		GAMCO		
	Heritage Insurance				Investors Inc.		
	Holdings Inc.	698,957	4,110		Class A	121,104	3,025
				1	Partners Bancorp	305,021	2,983

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Provident Financial			1	Citizens Holding Co.	97,134	1,821
	Holdings Inc.	178,916	2,961	1	US Global	37,134	1,021
*,1	BM Technologies Inc.	313,589	2,888		Investors Inc.		
*	PDL Community	010,000	2,000		Class A	413,658	1,820
	Bancorp	196,447	2,876	1	Cullman Bancorp Inc.	141,227	1,761
*,1	Finance of America	,	, -		Sound Financial	•	,
	Cos. Inc. Class A	716,866	2,846		Bancorp Inc.	39,057	1,718
*	Hippo Holdings Inc.	1,005,399	2,845	*	Kingsway Financial		
	Ohio Valley Banc				Services Inc.	311,150	1,705
	Corp.	97,749	2,840		CF Bankshares Inc.	74,586	1,556
	Lument Finance			*,1	OppFi Inc.	342,288	1,554
	Trust Inc.	736,731	2,829		Bank of South		
	Guild Holdings Co.				Carolina Corp.	74,261	1,498
	Class A	200,200	2,809	1	Hennessy		
	Middlefield Banc	444 450	0.700		Advisors Inc.	136,198	1,479
	Corp.	111,453	2,766	*	Great Elm Group Inc.	700,231	1,463
	Summit State Bank	181,958	2,742	*	Limestone	====	
	Safeguard Scientifics Inc.	270 001	2.726		Bancorp Inc.	77,944	1,454
	United Insurance	370,901	2,726		Elmira Savings Bank	61,402	1,404
	Holdings Corp.	605,363	2,627		Manhattan Bridge	252 640	1,395
	United Security	003,303	2,027	*	Capital Inc. LM Funding	253,648	1,395
	Bancshares	322,421	2,618		America Inc.	286,075	1,390
	loanDepot Inc.	022, 121	2,010	*	Midwest Holding Inc.	79,299	1,380
	Class A	538,648	2,586	*	Bogota Financial	70,200	1,000
*	Security National				Corp.	133,526	1,359
	Financial Corp.				AmeriServ	,	,
	Class A	279,866	2,575		Financial Inc.	345,360	1,333
*	SWK Holdings Corp.	128,875	2,530	*	USCB Financial		
	Bank7 Corp.	109,773	2,525		Holdings Inc.	90,208	1,301
	Landmark				United		
	Bancorp Inc.	88,296	2,516		Bancshares Inc.	36,068	1,100
1	Union	05.050	0.470	*,1	Reliance Global		
	Bankshares Inc.	85,053	2,472		Group Inc.	159,588	1,028
	Oak Valley Bancorp	141,787	2,467	*	Rhinebeck	05.000	4 000
_	Elevate Credit Inc.	793,543	2,357		Bancorp Inc.	95,620	1,022
	Prudential	160 600	2 202		Kingstone Cos. Inc.	202,353	1,012
*	Bancorp Inc.	169,608	2,303		First US Bancshares Inc.	01 042	972
	Sterling Bancorp Inc. IF Bancorp Inc.	370,819	2,132	*	Ashford Inc.	91,843	942
	Associated Capital	85,645	2,127		Southern States	56,551	942
	Group Inc. Class A	48,920	2,104		Bancshares Inc.	44,692	879
	Northeast	10,020	2,101		Community West	11,002	0,0
	Community				Bancshares	61,904	823
	Bancorp Inc.	188,155	2,094		Emclaire Financial	,	
*	Hallmark Financial				Corp.	28,051	811
	Services Inc.	480,443	2,090		Generations Bancorp		
*	Broadway Financial				NY Inc.	67,225	801
	Corp.	896,664	2,071	*	FFBW Inc.	66,391	779
*	Catalyst Bancorp Inc.	151,200	2,067	*	Oxbridge Re		
*	TC Bancshares Inc.	151,263	2,025		Holdings Ltd.	132,133	743
	Randolph			*,1	Patriot National		
_	Bancorp Inc.	84,355	2,014	_	Bancorp Inc.	47,078	732
*	Heritage Global Inc.	1,010,347	1,879	*	Carver Bancorp Inc.	85,301	728
	Auburn National	FO 2.42	4 070	*	FedNat Holding Co.	439,008	619
	Bancorp Inc.	59,246	1,878	*,1	Biorestorative	100 454	F01
-	Nicholas Financial Inc.	155,984	1 020	*,1	Therapies Inc.	138,454	591
	i ilialiciai IIIC.	100,804	1,839	7,1	SurgePays Inc.	290,433	587

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Affinity				Medtronic plc	38,220,866	3,953,949
	Bancshares Inc.	35,206	542		Bristol-Myers Squibb	50,220,000	0,000,040
	Mid-Southern				Co.	63,083,990	3,933,287
	Bancorp Inc.	29,996	450	*	Intuitive Surgical Inc.	10,152,895	3,647,935
*	NeuroOne Medical				Amgen Inc.	16,008,641	3,601,464
	Technologies Corp.	209,321	406		Zoetis Inc.	13,446,588	3,281,371
	Lake Shore	25.670	207		Anthem Inc.	6,898,478	3,197,720
	Bancorp Inc.	25,679	387		Gilead Sciences Inc.	35,651,267	2,588,638
	Pathfinder Bancorp Inc.	22,868	387		Stryker Corp.	9,648,803	2,580,283
*	HV Bancorp Inc.	14,687	326	*	Moderna Inc.	9,794,908	2,487,711
	Old Point Financial	11,007	020	*	Edwards		0.000 704
	Corp.	12,849	293		Lifesciences Corp.	17,744,202	2,298,761
	Oconee Federal	,			Cigna Corp.	9,419,683	2,163,042
	Financial Corp.	13,031	284		Becton Dickinson & Co.	0 071 002	2 020 042
*,2	Altisource Asset			*	Regeneron	8,071,982	2,029,942
	Management Corp	. 15,386	275		Pharmaceuticals Inc.	2 854 570	1,802,718
*	Impac Mortgage			*	Boston Scientific	. 2,004,070	1,002,710
	Holdings Inc.	244,016	271		Corp.	40,504,440	1,720,629
*,1,2	Contran Corp. CVR	204,224	196		HCA Healthcare Inc.	6,630,009	1,703,382
*	OptimumBank	40.004	404		Humana Inc.	3,652,714	1,694,348
	Holdings Inc.	48,881	194	*	Illumina Inc.	4,442,272	1,690,018
	1895 Bancorp of Wisconsin Inc.	15,643	171	*	Vertex		
*	Finwise Bancorp	12,287	169		Pharmaceuticals Inc.	. 7,226,375	1,586,912
	Kentucky First	12,207	109	*	IDEXX		
	Federal Bancorp	21,331	160		Laboratories Inc.	2,409,891	1,586,817
*	FG Financial	,		*	IQVIA Holdings Inc.	5,429,446	1,531,864
	Group Inc.	34,257	127	*	Dexcom Inc.	2,754,702	1,479,137
*	PB Bankshares Inc.	8,966	122	*	Align Technology Inc.	2,129,039	1,399,162
	Atlantic American				Agilent	0.500.701	1 070 000
	Corp.	36,081	88		Technologies Inc.	8,582,701	1,370,228
*	First Seacoast				Centene Corp. Baxter	16,580,507	1,366,234
	Bancorp	6,207	66		International Inc.	14,225,159	1,221,088
	Village Bank & Trust	1 104	C4		ResMed Inc.	4,141,480	1,078,773
*	Financial Corp.	1,124	64	*	Veeva Systems Inc.	4,141,400	1,070,770
*	Vericity Inc. Cincinnati	1,036	7		Class A	3,940,625	1,006,751
	Bancorp Inc.	400	6	*	Biogen Inc.	4,175,182	1,001,710
*,2	Frontier Financial	400	0		West Pharmaceutical		, ,
	Corp.	1	_		Services Inc.	2,106,040	987,754
*,1,2	Cogent			*	Laboratory Corp. of		
	Biosciences Inc.				America Holdings	2,720,118	854,688
	CVR	400,874	_		Cerner Corp.	8,361,825	776,563
		_	148,961,770		Zimmer Biomet		754400
Healt	h Care (12.7%)		,		Holdings Inc.	5,936,467	754,169
	UnitedHealth				PerkinElmer Inc.	3,586,790	721,160
	Group Inc.	26,768,259	13,441,414		Horizon Therapeutics	6,446,904	694,718
	Johnson & Johnson	74,819,509	12,799,373		plc STERIS plc	2,842,718	691,946
	Pfizer Inc.	159,524,035	9,419,894	*	Catalent Inc.	4,865,719	622,958
	Thermo Fisher			*	Avantor Inc.	14,723,330	620,441
	Scientific Inc.	11,199,012	7,472,429		Quest	1 7,7 20,000	020,441
	Abbott Laboratories	50,255,433	7,072,950		Diagnostics Inc.	3,486,815	603,254
	AbbVie Inc.	50,244,447	6,803,098	*	Seagen Inc.	3,898,257	602,671
	Eli Lilly & Co.	24,468,610	6,758,719		Cooper Cos. Inc.	1,401,141	586,994
	Danaher Corp.	18,278,949	6,013,957		Bio-Techne Corp.	1,116,839	577,785
	Merck & Co. Inc.	71,790,103	5,501,993		•		

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Alnylam			*	Jazz Pharmaceuticals		
	Pharmaceuticals Inc	. 3,399,367	576,465		plc	1,660,120	211,499
*	Hologic Inc.	7,145,088	547,028	*	Mirati		
*	Charles River				Therapeutics Inc.	1,411,972	207,122
	Laboratories			*	Envista Holdings		
	International Inc.	1,433,990	540,299		Corp.	4,581,866	206,459
*	Molina			*	DaVita Inc.	1,738,349	197,755
	Healthcare Inc.	1,660,183	528,071	*	Novocure Ltd.	2,511,869	188,591
*	Insulet Corp.	1,959,851	521,458	*	Arrowhead		
	Viatris Inc.	34,371,955	465,053		Pharmaceuticals Inc.	2,822,433	187,127
*	BioMarin				Encompass Health		
	Pharmaceutical Inc.	5,215,202	460,763		Corp.	2,829,082	184,626
*	Bio-Rad			*	Blueprint Medicines	4 075 544	470 400
	Laboratories Inc.	E00.070	450.046		Corp.	1,675,544	179,468
*	Class A	599,873	453,246		Medpace	017200	177007
	ABIOMED Inc.	1,228,522	441,248	*	Holdings Inc.	817,389	177,897
*	Teleflex Inc.	1,331,492	437,368		Shockwave Medical Inc.	953,732	170,079
	Masimo Corp.	1,411,792	413,344	*	Inspire Medical	903,732	170,079
	Cardinal Health Inc.	8,009,929	412,431		Systems Inc.	737,273	169,617
Ĵ	Repligen Corp.	1,492,969	395,398	*	Exelixis Inc.	8,985,133	164,248
	Incyte Corp.	5,333,840	391,504	*	Globus Medical Inc.	0,303,133	104,240
	Exact Sciences Corp.	, ,	381,575		Class A	2,246,780	162,218
*	Teladoc Health Inc.	4,095,311	376,031	*	Arena	2,240,700	102,210
	Royalty Pharma plc	0.450.554	004.000		Pharmaceuticals Inc.	1,744,074	162,094
	Class A	9,156,554	364,889	*	Halozyme	1,744,074	102,004
	Elanco Animal	10 700 510	000 000		Therapeutics Inc.	4,002,223	160,929
*	Health Inc.	12,763,516	362,229	*	Acadia Healthcare	.,,	,
	10X Genomics Inc.	2 242 072	240,000		Co. Inc.	2,557,583	155,245
	Class A	2,342,973	349,009	*	Ultragenyx	, ,	,
	DENTSPLY SIRONA Inc.	6,212,630	346,603		Pharmaceutical Inc.	1,840,757	154,789
*,1	Novavax Inc.	2,148,956	307,451	*	Amedisys Inc.	927,003	150,063
*	Henry Schein Inc.	3,942,001	305,623		Perrigo Co. plc	3,803,940	147,973
*	Syneos Health Inc.	2,947,171		*	Neogen Corp.	3,064,508	139,159
*	Penumbra Inc.		302,616	*	Integra LifeSciences	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
*		1,008,835	289,858		Holdings Corp.	2,046,589	137,101
	United Therapeutics Corp.	1,279,182	276,406	*	agilon health Inc.	5,036,543	135,987
*	Guardant Health Inc.	2,743,948	274,450	*	ICU Medical Inc.	572,034	135,767
*	Tandem Diabetes	2,743,340	274,450	*	Quidel Corp.	1,004,871	135,648
	Care Inc.	1,806,113	271,856		Premier Inc. Class A	3,292,523	135,553
	Universal Health	1,000,110	271,000	*	Fate		
	Services Inc.				Therapeutics Inc.	2,308,055	135,044
	Class B	1,974,970	256,075	*	Maravai LifeSciences		
*	Tenet Healthcare				Holdings Inc.		
	Corp.	3,044,017	248,666		Class A	3,176,722	133,105
	Bruker Corp.	2,802,014	235,117		Ensign Group Inc.	1,488,761	124,996
	Chemed Corp.	437,696	231,559	*	STAAR Surgical Co.	1,353,927	123,614
*	Neurocrine			*	Pacific Biosciences		
	Biosciences Inc.	2,696,301	229,644		of California Inc.	5,957,447	121,889
*	Natera Inc.	2,420,309	226,033		CONMED Corp.	832,025	117,948
*	Omnicell Inc.	1,248,903	225,352	*	LHC Group Inc.	855,811	117,443
*	Intellia	•	•	*	Option Care		
	Therapeutics Inc.	1,903,875	225,114		Health Inc.	4,092,536	116,392
	Organon & Co.	7,206,723	219,445	*	Beam		
*	Sarepta				Therapeutics Inc.	1,452,853	115,778
	Therapeutics Inc.	2,352,043	211,801	*	NeoGenomics Inc.	3,333,311	113,733
				*	Apellis	0.051.450	114 400
					Pharmaceuticals Inc.	2,351,153	111,163

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*		Jilaics	(\$000)	*		Silaies	(\$000)
_	Intra-Cellular Therapies Inc.	2 005 601	100 165	-	lovance Biotherapeutics Inc.	3,795,805	72.462
*	Denali	2,085,681	109,165	*	Pacira	3,795,605	72,462
	Therapeutics Inc.	2,430,567	108,403		BioSciences Inc.	1,203,762	72,430
*	Alkermes plc	4,608,352	107,190	*	Ortho Clinical	1,200,702	72,400
*	HealthEquity Inc.	2,383,726	105,456		Diagnostics		
*	Ionis	2,000,720	100,400		Holdings plc	3,365,328	71,984
	Pharmaceuticals Inc.	3 414 345	103,899	*	BioCryst		,
*	Cytokinetics Inc.	2,269,512	103,444		Pharmaceuticals Inc.	5,110,953	70,787
*	Oak Street	2,200,012	100, 111	*	Nektar Therapeutics	5,234,921	70,724
	Health Inc.	3,073,379	101,852	*	Ligand		
*	Adaptive	.,,.	,		Pharmaceuticals Inc.	451,729	69,774
	Biotechnologies			*	TG Therapeutics Inc.	3,650,851	69,366
	Corp.	3,609,655	101,287	*	CareDx Inc.	1,493,017	67,902
*	R1 RCM Inc.	3,938,522	100,393	*,1	GoodRx Holdings Inc.		
*	Arvinas Inc.	1,203,052	98,819		Class A	2,065,809	67,511
*	Twist Bioscience			*	Xencor Inc.	1,666,026	66,841
	Corp.	1,270,246	98,304	*	Sotera Health Co.	2,818,547	66,377
*	Progyny Inc.	1,930,234	97,187	*,1	Doximity Inc. Class A	1,314,487	65,895
*	Merit Medical			*	Magellan Health Inc.	669,987	63,642
	Systems Inc.	1,521,467	94,787	*	MEDNAX Inc.	2,338,065	63,619
*	iRhythm			*	Evolent Health Inc.		
	Technologies Inc.	797,916	93,907		Class A	2,285,839	63,249
*	Vir Biotechnology Inc.		93,639	*	Surgery Partners Inc.	1,142,352	61,013
*	Invitae Corp.	6,115,832	93,389	*	Sage		
*	Insmed Inc.	3,366,988	91,717		Therapeutics Inc.	1,424,394	60,594
*	Amicus			*	Emergent		
	Therapeutics Inc.	7,927,222	91,559		BioSolutions Inc.	1,375,829	59,807
	Select Medical			*	Myriad Genetics Inc.	2,159,798	59,610
	Holdings Corp.	3,052,965	89,757	*	Axonics Inc.	1,054,121	59,031
	Owens & Minor Inc.	2,043,366	88,886	*	Outset Medical Inc.	1,271,081	58,584
*	AtriCure Inc.	1,244,382	86,522	*	ChemoCentryx Inc.	1,591,997	57,965
*	Prestige Consumer		00.400	*	CorVel Corp.	277,154	57,648
	Healthcare Inc.	1,425,649	86,466	*	Arcus		
_	Inari Medical Inc.	927,613	84,663		Biosciences Inc.	1,398,867	56,612
_	Veracyte Inc.	2,025,188	83,438	*	Relay		50.044
	Karuna	600 470	00.054		Therapeutics Inc.	1,843,411	56,611
*	Therapeutics Inc.	632,472	82,854	_	SpringWorks	010 107	EC 410
*	Certara Inc.	2,914,923	82,842	*	Therapeutics Inc.	910,187	56,413
	Zentalis Pharmaceuticals Inc.	966,857	81,274	*	Glaukos Corp.	1,260,158	56,001
*,1	Warby Parker Inc.	300,657	01,274		Kymera Therapeutics Inc.	875,821	55,606
,.	Class A	1,739,487	80,991	*,1	Fulgent Genetics Inc.	550,823	55,407
*	Integer Holdings	1,700,407	00,001	*	NanoString	550,625	55,407
	Corp.	939,613	80,421		Technologies Inc.	1,299,621	54,883
*	ACADIA	,		*	Codexis Inc.	1,750,892	54,750
	Pharmaceuticals Inc.	3,430,223	80,061	*	Phreesia Inc.	1,310,009	54,575
*	PTC Therapeutics Inc.		80,023	*	IVERIC bio Inc.	3,257,842	54,471
*	Haemonetics Corp.	1,453,213	77,078	*	Travere	5,257,042	54,471
*	NuVasive Inc.	1,466,506	76,962		Therapeutics Inc.	1,740,106	54,013
*	1Life Healthcare Inc.	4,343,665	76,318	*	Turning Point	.,, 10,100	5-,010
*	Nevro Corp.	939,258	76,146		Therapeutics Inc.	1,126,183	53,719
*,1	Apollo Medical	333,200	. 5, 1 10	*	Global Blood	.,.20,100	55,710
	Holdings Inc.	1,029,745	75,666		Therapeutics Inc.	1,831,287	53,602
*	Kodiak Sciences Inc.	883,572	74,909	*,1	Corcept		-,
	Patterson Cos. Inc.	2,491,598	73,128		Therapeutics Inc.	2,701,452	53,489
		, - ,	-,	*	ModivCare Inc.	358,575	53,173

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Heska Corp.	290,734	53,056	*,1	Anavex Life Sciences		(4444)
*	Lantheus	290,734	55,050	,.	Corp.	2,059,527	35,712
	Holdings Inc.	1,818,068	52,524	*	Varex Imaging Corp.	1,122,895	35,427
*	Vericel Corp.	1,328,158	52,197		US Physical	, , ,	,
*	Editas Medicine Inc.	1,946,698	51,685		Therapy Inc.	368,295	35,191
*	Celldex		,	*,1	Recursion		
	Therapeutics Inc.	1,328,884	51,348		Pharmaceuticals Inc.		
*,1	OPKO Health Inc.	10,656,268	51,257		Class A	2,039,616	34,939
*	Avid Bioservices Inc.	1,743,331	50,870	*	REGENXBIO Inc.	1,026,682	33,572
*	Agios				Alector Inc.	1,616,312	33,377
*	Pharmaceuticals Inc. AdaptHealth Corp.		50,858	*	FibroGen Inc. Coherus	2,361,024	33,290
	Class A	2,065,568	50,524		Biosciences Inc.	2,074,055	33,102
*	REVOLUTION		50.040	-	Nurix	1 100 150	22.050
*	Medicines Inc.	1,995,057	50,216	*	Therapeutics Inc. Prometheus	1,138,158	32,950
*,1	Health Catalyst Inc. Bridgebio	1,257,138	49,808	*	Biosciences Inc.	829,736	32,808
	Pharma Inc.	2,928,886	48,854		Crinetics Pharmaceuticals Inc.	1 1/15 0/19	32,531
*	Avanos Medical Inc.	1,370,836	47,527	*	Cano Health Inc.	3,591,651	32,002
	Cerevel Therapeutics Holdings Inc.	1,464,021	47,464	*	Harmony	0,001,001	02,002
*	Community Health	., .0 .,02 .	17, 10 1		Biosciences		
	Systems Inc.	3,550,509	47,257		Holdings Inc.	747,810	31,887
*,1	Cassava			*	Tivity Health Inc.	1,205,505	31,874
	Sciences Inc.	1,075,531	47,001	*	Revance	4 054 000	04.044
*	Ironwood			*	Therapeutics Inc.	1,951,068	31,841
	Pharmaceuticals Inc.	2.040.451	4E 046	*,1	Cerus Corp. Seer Inc. Class A	4,614,621	31,426
*	Class A	3,940,451	45,946	*,1	Clover Health	1,377,013	31,410
	Dynavax Technologies Corp.	3,237,203	45,547	, '	Investments Corp.		
*	ImmunoGen Inc.	6,076,817	45,090		Class A	8,424,736	31,340
*,1	Multiplan Corp.	9,973,519	44,183	*	Privia Health	, , ,	, ,
*	Addus HomeCare	0,010,00	,		Group Inc.	1,208,353	31,260
	Corp.	453,076	42,367	*	American Well Corp.		
*,1	Ginkgo Bioworks				Class A	5,173,369	31,247
	Holdings Inc.	5,065,389	42,093	*	Innoviva Inc.	1,780,193	30,708
*	BioLife Solutions Inc.	1,124,220	41,900	*	Inhibrx Inc.	700,947	30,610
*	Supernus			*,1	Senseonics	11 400 170	20.440
	Pharmaceuticals Inc.	1,434,233	41,822	*	Holdings Inc. Axsome	11,403,178	30,446
	Protagonist Therapeutics Inc.	1,209,862	41,377		Therapeutics Inc.	801,063	30,264
*	Accolade Inc.	1,517,821	40,010	*	Allogene	001,000	00,201
*	Quanterix Corp.	938,819	39,806		Therapeutics Inc.	2,017,623	30,103
*	Krystal Biotech Inc.	564,988	39,521	*,1	Inovio		
*	RadNet Inc.	1,295,210	38,999		Pharmaceuticals Inc.	6,018,028	30,030
*	Enanta	1,200,210	00,000	*	Alignment		
	Pharmaceuticals Inc.	520,311	38,909		Healthcare Inc.	2,121,699	29,831
*,1	Sorrento			*,1	MannKind Corp.	6,808,119	29,751
	Therapeutics Inc.	8,297,730	38,584	*	Morphic Holding Inc.	625,804	29,651
*	Silk Road			-	Syndax Pharmaceuticals Inc.	1 244 201	20.427
	Medical Inc.	892,722	38,039	* 1			29,427
*	C4 Therapeutics Inc.	1,174,714	37,826	*,1 *	Nuvation Bio Inc. Madrigal	3,403,381	28,929
	Healthcare Services	0 110 014	07701		Pharmaceuticals Inc.	340,736	28,874
*	Group Inc. Atara	2,119,214	37,701	*	AngioDynamics Inc.	1,045,325	28,830
	Biotherapeutics Inc.	2,388,794	37,647		LeMaitre	.,0.0,020	20,000
*	Sana	_,000,70 +	37,017		Vascular Inc.	565,478	28,404
	Biotechnology Inc.	2,400,453	37,159				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Rocket			*	Triple-S Management		,,,,,
*	Pharmaceuticals Inc. iTeos	1,289,887	28,158		Corp. Class B National Research	640,323	22,847
	Therapeutics Inc.	601,357	27,999		Corp.	545,812	22,662
*	NextGen	,	,,	*	Inotiv Inc.	533,245	22,434
	Healthcare Inc.	1,554,908	27,662	*	CryoLife Inc.	1,076,564	21,908
*,1	Butterfly			*,1	Vaxart Inc.	3,399,097	21,312
	Network Inc.	4,127,533	27,613	*	Agiliti Inc.	913,771	21,163
*	Joint Corp.	410,254	26,950	*	Agenus Inc.	6,571,688	21,161
*	Brookdale Senior			*,1	Gritstone bio Inc.	1,642,659	21,125
	Living Inc.	5,222,431	26,948	*	Cardiovascular	.,0 .2,000	2.,.20
	Atrion Corp.	37,874	26,697		Systems Inc.	1,110,009	20,846
*	OptimizeRx Corp.	429,263	26,662	*	Inogen Inc.	605,155	20,575
*	MacroGenics Inc.	1,654,155	26,549	*	Praxis Precision	000,100	20,070
*	Castle				Medicines Inc.	1,027,741	20,246
	Biosciences Inc.	619,225	26,546	*	Reata		•
*	ViewRay Inc.	4,769,153	26,278		Pharmaceuticals Inc.		
*	Heron				Class A	762,202	20,099
	Therapeutics Inc.	2,877,718	26,274	*	Bluebird Bio Inc.	2,009,410	20,074
*,1	Berkeley Lights Inc.	1,438,830	26,158	*	Scholar Rock Holding		
*	Zogenix Inc.	1,602,566	26,042		Corp.	806,635	20,037
*	MaxCyte Inc.	2,549,425	25,979	*	Gossamer Bio Inc.	1,770,683	20,026
*,1	Ocugen Inc.	5,601,885	25,489	*	Kezar Life		
*	Avidity				Sciences Inc.	1,193,981	19,963
	Biosciences Inc.	1,066,450	25,350	*	Alphatec		
*,1	Instil Bio Inc.	1,465,384	25,073		Holdings Inc.	1,704,060	19,477
*	Kura Oncology Inc.	1,787,387	25,023	*	PMV		
*	Intersect ENT Inc.	912,624	24,924		Pharmaceuticals Inc.	838,847	19,377
*	Sangamo			*,1	Day One		
	Therapeutics Inc.	3,317,213	24,879		Biopharmaceuticals Inc.	1,144,558	19,286
*	Meridian			*	Definitive Healthcare	1,144,000	19,200
	Bioscience Inc.	1,218,909	24,866		Corp. Class A	702,947	19,212
	RAPT	070 140	0.4.000	*	SI-BONE Inc.	862,337	19,152
	Therapeutics Inc.	672,140	24,688	*	HealthStream Inc.	721,647	19,023
	Aclaris	1 670 060	24.425	*	AnaptysBio Inc.	546,451	18,989
	Therapeutics Inc. National HealthCare	1,679,868	24,425	*	Cutera Inc.	455,291	18,813
	Corp.	354,161	24,062	*	Theravance	455,251	10,013
*	Amphastar	334,101	24,002		Biopharma Inc.	1,702,049	18,808
	Pharmaceuticals Inc.	1 031 005	24,012	*	Hanger Inc.	1,030,939	18,691
*	Arcturus Therapeutics	1,001,000	2.,0.2	*	Catalyst	.,000,000	.0,00
	Holdings Inc.	644,043	23,836		Pharmaceuticals Inc.	2,741,908	18,563
*	Keros		,	*	Ideaya		,
	Therapeutics Inc.	406,191	23,766		Biosciences Inc.	776,655	18,360
*,1	Hims & Hers			*	Apria Inc.	555,583	18,112
	Health Inc.	3,614,268	23,673	*	OraSure		
*	Endo International plc	6,284,824	23,631		Technologies Inc.	2,069,155	17,981
*,1	Bionano			*	Arcutis		
	Genomics Inc.	7,879,312	23,559		Biotherapeutics Inc.	842,760	17,479
*	Pulmonx Corp.	732,933	23,505	*	Collegium		
*	Replimune				Pharmaceutical Inc.	933,947	17,446
	Group Inc.	865,293	23,449	*	Surmodics Inc.	359,290	17,300
*	Vanda			*	2seventy bio Inc.	667,203	17,100
	Pharmaceuticals Inc.		23,411	*	PetIQ Inc. Class A	751,753	17,072
*	Vaxcyte Inc.	980,079	23,316	*	Orthofix Medical Inc.	546,188	16,981
*	OrthoPediatrics Corp.	387,103	23,172	*	Relmada		
*	Natus Medical Inc.	975,293	23,144		Therapeutics Inc.	747,531	16,842

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Organogenesis			*	Albireo Pharma Inc.	565,251	13,165
*	Holdings Inc. Class A ANI	1,822,227	16,837	*	SeaSpine Holdings Corp. TransMedics	961,674	13,098
*	Pharmaceuticals Inc. Amneal	362,290	16,694	*	Group Inc. Forma Therapeutics	671,310	12,862
*	Pharmaceuticals Inc. Pennant Group Inc.	3,483,678 716,355	16,687 16,533	*	Holdings Inc.	898,654	12,779
*	Antares Pharma Inc. Y-mAbs	4,597,597	16,413	*	Pharmaceuticals Inc. Rigel	640,958	12,608
*,1	Therapeutics Inc. Adicet Bio Inc.	1,012,266 921,110	16,409 16,110	*,1	Pharmaceuticals Inc. Rubius	4,729,555	12,533
*	Atea Pharmaceuticals Inc.		15,840	*	Therapeutics Inc. Apyx Medical Corp.	1,273,947 945,007	12,332 12,115
*	NGM Biopharmaceuticals	1,771,640	15,640	*	Mersana Therapeutics Inc.	1,935,742	12,115
*	Inc.	884,464	15,664	*	Computer Programs		
*	Sutro Biopharma Inc. Eagle	1,047,202	15,582	*	& Systems Inc. Karyopharm	407,736	11,947
*	Pharmaceuticals Inc. Ocular	,	15,531	*	Therapeutics Inc. Accuray Inc.	1,844,372 2,481,415	11,859 11,836
*	Therapeutix Inc. Seres	2,180,451	15,198	*	Marinus Pharmaceuticals Inc.	994,957	11,820
*	Therapeutics Inc. Chinook	1,817,614	15,141	*	Edgewise Therapeutics Inc.	771,050	11,782
*,1	Therapeutics Inc. Verve	925,097	15,088	*	Curis Inc. Phibro Animal Health	2,465,760	11,737
*	Therapeutics Inc. Cara	408,759	15,071	*	Corp. Class A Talaris	574,011	11,721
*	Therapeutics Inc. BioAtla Inc.	1,217,825 754,265	14,833 14,806	*	Therapeutics Inc. Viridian	764,850	11,695
*	4D Molecular Therapeutics Inc.	673,332	14,773	*,1	Therapeutics Inc. Athira Pharma Inc.	587,442 888,962	11,614 11,583
*	Bioventus Inc.			*,1	Cullinan		
*	Class A Personalis Inc.	1,014,433 1,020,303	14,699 14,560	*	Oncology Inc. Semler Scientific Inc.	749,484 125,100	11,565 11,465
*	Anika Therapeutics Inc.	403,039	14,441	*	Bioxcel Therapeutics Inc.	558,433	11,353
*	Chimerix Inc.	2,225,657	14,311	*	Kinnate Biopharma Inc.	637,863	11,303
*	Therapeutics Inc. Treace Medical	807,395	14,283	*	Deciphera		
	Concepts Inc.	756,312	14,098	*	Pharmaceuticals Inc. Akebia	, ,	11,278
*	Kronos Bio Inc. Stoke	1,024,841	13,928	*	Therapeutics Inc. 908 Devices Inc.	4,988,610 433,283	11,274 11,209
*	Therapeutics Inc. Akero	577,128	13,845	*	Foghorn Therapeutics Inc.	484,050	11,070
*	Therapeutics Inc. UFP	646,709	13,678	*,1	Intercept Pharmaceuticals Inc.	673,695	10,974
*,1	Technologies Inc. ImmunityBio Inc.	193,826 2,231,847	13,618 13,570	*	ALX Oncology Holdings Inc.	510,327	10,967
*,1	MiMedx Group Inc.	2,246,582	13,569	*	Precigen Inc.	2,943,674	10,921
*,1	Design Therapeutics Inc.	633,295	13,559	*	Geron Corp. Spero	8,897,946	10,855
*	Rhythm Pharmaceuticals Inc.	1 356 727	13,540	*	Therapeutics Inc. Allovir Inc.	677,888 834,467	10,853
*	ORIC	.,000,727	10,040	*,1	Allovir Inc. Aadi Bioscience Inc.	445,926	10,798 10,769
	Pharmaceuticals Inc.	912,634	13,416	*,1	Omeros Corp.	1,670,488	10,741

		Shares	Market Value•			Shares	Market Value• (\$000)
		Sildles	(\$000)			Stidles	(\$000)
*,1	VistaGen	E EOE 0E0	10.705	*	Viking	1 056 105	0.000
*,1	Therapeutics Inc.	5,505,056	10,735	*,1	Therapeutics Inc.	1,956,125	8,998
*	Vapotherm Inc.	516,784	10,703	, '	Esperion Therapeutics Inc.	1,736,578	8.683
*	Verastem Inc.	5,204,312	10,669	*	Stereotaxis Inc.		8,604
*,1	Allakos Inc.	1,085,554	10,628	*,1	CEL-SCI Corp.	1,387,817	8,470
-,1	Tabula Rasa HealthCare Inc.	700 021	10.620	*	Olema	1,193,012	0,470
*,1	Vicarious	708,021	10,620		Pharmaceuticals Inc	. 901,724	8,440
, ,	Surgical Inc.	989,738	10,511	*,1	Lineage Cell	. 301,724	0,440
*,1	Arbutus Biopharma	303,730	10,511		Therapeutics Inc.	3,437,446	8,422
, .	Corp.	2,697,043	10,491	*,1	Applied Molecular	0,107,110	0,122
*,1	Signify Health Inc.	2,007,010	10, 10 1		Transport Inc.	601,000	8,402
	Class A	728,189	10,355	*	Axogen Inc.	896,295	8,398
*,1	DermTech Inc.	653,798	10,330	*	Mirum	,	2,222
*	Kiniksa	555,.55	,		Pharmaceuticals Inc	. 526,006	8,390
	Pharmaceuticals			*	Selecta		
	Ltd. Class A	868,519	10,222		Biosciences Inc.	2,565,679	8,364
*,1	LifeStance Health			*	Lexicon		
	Group Inc.	1,064,164	10,131		Pharmaceuticals Inc	. 2,121,674	8,359
*	Tactile Systems			*,1	DICE		
	Technology Inc.	529,858	10,083		Therapeutics Inc.	326,204	8,256
*	Aligos			*	iRadimed Corp.	176,500	8,156
	Therapeutics Inc.	848,752	10,075	*	Cymabay		
*,1	Xeris Biopharma				Therapeutics Inc.	2,398,201	8,106
	Holdings Inc.	3,373,558	9,885	*,1	Erasca Inc.	518,553	8,079
*,1	G1 Therapeutics Inc.	966,855	9,872	*,1	Zomedica Corp.	26,205,556	8,032
*	MEI Pharma Inc.	3,693,414	9,861	*	Provention Bio Inc.	1,417,520	7,966
*,1	Clovis Oncology Inc.	3,614,712	9,796	*	Jounce		
*	Pliant	740.007	0.007		Therapeutics Inc.	950,782	7,939
	Therapeutics Inc.	718,287	9,697	*	CytomX	4 000 470	7007
	Altimmune Inc.	1,055,590	9,669	* 1	Therapeutics Inc.	1,826,173	7,907
_	Cue Biopharma Inc.	849,873	9,612	*,1	Cogent Biosciences Inc.	010 101	7007
	Dyne	007000	0.500	*,1	KemPharm Inc.	919,181	7,887
	Therapeutics Inc. Utah Medical	807,332	9,599	*,1	Caribou	893,113	7,779
	Products Inc.	95,438	9,544	, '	Biosciences Inc.	514,146	7,758
*	Aveanna Healthcare	35,436	3,544	*	Passage Bio Inc.	1,216,852	7,737
	Holdings Inc.	1,284,770	9,507	*,1	Oyster Point	1,210,002	1,121
*	KalVista	1,201,770	0,007	, .	Pharma Inc.	418,653	7,645
	Pharmaceuticals Inc.	717,163	9,488	*,1	SmileDirectClub Inc.	110,000	7,010
*	Singular Genomics	,	.,		Class A	3,163,758	7,435
	Systems Inc.	820,124	9,481	*	BioDelivery Sciences		,
*,1	Fluidigm Corp.	2,407,569	9,438		International Inc.	2,396,202	7,428
*	Immunovant Inc.	1,107,045	9,432	*,1	Leap		
*	EyePoint				Therapeutics Inc.	2,289,511	7,418
	Pharmaceuticals Inc.	767,993	9,400	*	ADMA Biologics Inc.	5,232,363	7,378
*,1	23andMe Holding			*,1	Cortexyme Inc.	582,453	7,351
	Co.	1,401,400	9,333	*	Generation Bio Co.	1,038,127	7,350
*	Precision			*,1	Icosavax Inc.	319,992	7,321
	BioSciences Inc.	1,254,716	9,285	*	Akoya		
*	Aerie				Biosciences Inc.	477,329	7,308
	Pharmaceuticals Inc.	1,313,983	9,224	*,1	Cardiff Oncology Inc.	1,200,675	7,216
*	SIGA	4.044.044	0.400	*,1	Asensus Surgical Inc.	6,477,615	7,190
*	Technologies Inc.	1,214,044	9,130	*	Vera		
_	Radius Health Inc.	1,317,303	9,116		Therapeutics Inc.		
* 4	Avita Medical Inc.	755,807	9,055		Class A	268,385	7,171
*,1	Tricida Inc.	941,938	9,005	*	Co-Diagnostics Inc.	799,651	7,141

		Charra	Market Value•			Shares	Market Value•
		Shares	(\$000)			Snares	(\$000)
*	Tarsus	017140	7100	*,1	Citius	0.700.000	E 70E
	Pharmaceuticals Inc.	,	7,136	*,1	Pharmaceuticals Inc.	3,762,882	5,795
*	XBiotech Inc. Shattuck Labs Inc.	633,491 827,230	7,051 7,040	, '	Tenaya Therapeutics Inc.	304,397	5,768
*	InfuSystem	027,230	7,040	*	Spectrum	004,007	3,700
	Holdings Inc.	412,131	7,019		Pharmaceuticals Inc.	4,533,639	5,758
*	Imago	,	1,212	*,1	Beyond Air Inc.	607,173	5,732
	Biosciences Inc.	286,492	6,793	*,1	Atossa		
*,1	Monte Rosa				Therapeutics Inc.	3,568,886	5,710
	Therapeutics Inc.	332,183	6,783	*,1	Ventyx		
*	Evolus Inc.	1,029,390	6,701		Biosciences Inc.	286,784	5,696
*,1	Aldeyra			*	Infinity	0.545.005	F 000
	Therapeutics Inc.	1,654,918	6,620	*,1	Pharmaceuticals Inc.		5,660
	9 Meters Biopharma Inc.	6,732,211	6,589	*	Humanigen Inc. Harpoon	1,519,387	5,652
*	ClearPoint Neuro Inc.	585,895	6,574		Therapeutics Inc.	744,084	5,618
*	Apollo	303,033	0,574	*	Sierra Oncology Inc.	257,900	5,607
	Endosurgery Inc.	778,104	6,559	*,1	Accelerate	207,000	0,007
*	Harvard	,	2,222		Diagnostics Inc.	1,071,946	5,596
	Bioscience Inc.	928,940	6,549	*,2	PDL BioPharma Inc.	2,258,201	5,578
*	IGM Biosciences Inc.	219,883	6,449	*,1	PAVmed Inc.	2,267,445	5,578
*	Ikena Oncology Inc.	511,054	6,409	*	Paratek		
*	Alpine Immune				Pharmaceuticals Inc.	1,241,872	5,576
	Sciences Inc.	458,029	6,344	*,1	Pulse		
*,1	ZIOPHARM		0.040	*	Biosciences Inc.	374,900	5,552
* 1	Oncology Inc.	5,819,043	6,343	*	Annexon Inc.	483,043	5,550
*,1 *	Progenity Inc.	3,025,977	6,324		Outlook Therapeutics Inc.	4,078,824	5,547
*	Durect Corp. Aeglea	6,408,832	6,318	*	ChromaDex Corp.	1,481,140	5,539
	BioTherapeutics Inc.	1 313 273	6,238	*	Sientra Inc.	1,494,281	5,484
*,1	PLx Pharma Inc.	765,283	6,130	*,1	Tango	1,454,201	3,404
*	Sema4 Holdings	700,200	0,100		Therapeutics Inc.	499,196	5,461
	Corp.	1,373,585	6,126	*	CytoSorbents Corp.	1,302,216	5,456
*,1	P3 Health			*	CTI BioPharma Corp.	2,197,729	5,450
	Partners Inc.	866,984	6,104	*,1	Athersys Inc.	5,996,030	5,412
*	Finch Therapeutics			*	Viemed		
	Group Inc.	608,599	6,068		Healthcare Inc.	1,021,301	5,331
*	Poseida	000 507	0.054	*	Immunic Inc.	556,586	5,327
	Therapeutics Inc.	888,597	6,051	*,1	Lyell		
	Cytek Biosciences Inc.	370,405	6,045		Immunopharma Inc.	685,335	5,304
*	SomaLogic Inc.	517,212	6,020	*,1 *	aTyr Pharma Inc.	707,035	5,282
*,1	Checkpoint	317,212	0,020	*,1	Fortress Biotech Inc.	2,099,871	5,250
	Therapeutics Inc.	1,935,339	6,019	-,1	PDS Biotechnology Corp.	646.702	5,238
*,1	MyMD	.,,	2,212	*,1	Matinas BioPharma	040,702	5,236
	Pharmaceuticals Inc.	986,327	5,977	,	Holdings Inc.	5,178,119	5,230
*	Nkarta Inc.	387,394	5,946	*,1	Graphite Bio Inc.	419,038	5,209
*,1	Janux			*	Eiger	,	-,
	Therapeutics Inc.	300,259	5,924		BioPharmaceuticals		
*,1	Sight Sciences Inc.	337,053	5,922		Inc.	1,002,324	5,202
*,1	Harrow Health Inc.	683,628	5,907	*	Akouos Inc.	600,364	5,103
*	SQZ Biotechnologies	057000	E 07E	*	Oncocyte Corp.	2,341,973	5,082
*	Co.	657,886	5,875	*	Ovid therapeutics	4 500 40:	
	Magenta Therapeutics Inc.	1,316,086	5,830	*	Inc.	1,580,181	5,072
*	Epizyme Inc.	2,324,103	5,830	*	iCAD Inc. TFF	693,870	4,996
*,1	Zynex Inc.	581,990	5,802	-	Pharmaceuticals Inc.	562,689	4,991
	=,	33.,000	5,002		i namaceuticais IIIC.	302,003	4,331

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Liquidia Corp.	1,020,773	4,971	*	Opiant		
*,1	Evelo	1,020,773	4,571		Pharmaceuticals Inc.	119,263	4,011
	Biosciences Inc.	815,953	4,953	*,1	Vincerx Pharma Inc.	391,380	3,988
*,1	Century	,	,	*	Svros	,	.,
	Therapeutics Inc.	311,529	4,941		Pharmaceuticals Inc.	1,219,329	3,975
*,1	Enochian			*,1	SCYNEXIS Inc.	648,422	3,955
	Biosciences Inc.	670,400	4,887	*,1	NRX		
*	CorMedix Inc.	1,073,491	4,884		Pharmaceuticals Inc.	825,400	3,945
*,1	Compass			*,1	Verrica		
	Therapeutics Inc.	1,538,900	4,878		Pharmaceuticals Inc.	426,172	3,904
*,1	AVEO			*,1	Conformis Inc.	5,125,262	3,902
	Pharmaceuticals Inc.	1,031,672	4,839	*,1	BrainStorm Cell		
*	Castlight Health Inc.	0.404.040	4.000	*	Therapeutics Inc.	951,371	3,805
*,1	Class B	3,134,910	4,828	*	Clearside	1 000 054	2.005
*,1	Sesen Bio Inc.	5,809,404	4,735	*	Biomedical Inc.	1,383,654	3,805
*,1	Vor BioPharma Inc. Seelos	402,489	4,677	*,1	Exagen Inc. Pear	326,266	3,794
, '	Therapeutics Inc.	2,822,580	4,601	, '	Therapeutics Inc.	609,168	3,777
1	Forian Inc.	507,760	4,580	*	Avrobio Inc.	967,934	3,777
*,1	XOMA Corp.	216,811	4,521	*	Homology	307,334	3,727
*	Tonix	210,011	4,521		Medicines Inc.	1,018,828	3,709
	Pharmaceuticals			*	Synlogic Inc.	1,521,748	3,683
	Holding Corp.	12,556,859	4,492	*,1	Xilio Therapeutics Inc.	227,813	3,645
*,1	Nuvalent Inc. Class A	235,682	4,487	*	CareMax Inc.	471,830	3,624
*,1	Taysha Gene			*,1	Viracta	.,.,,,,,	0,02 .
	Therapies Inc.	384,710	4,482		Therapeutics Inc.	991,377	3,619
*,1	PROCEPT			*	Celcuity Inc.	273,679	3,610
	BioRobotics Corp.	178,900	4,474	*	Black Diamond		
*	Molecular				Therapeutics Inc.	670,875	3,576
	Templates Inc.	1,130,895	4,433	*	Silverback		
*,1	Entrada	054.000	4.004		Therapeutics Inc.	536,038	3,570
*	Therapeutics Inc.	254,933	4,364	*	Larimar		
	Neoleukin Therapeutics Inc.	904,596	4,360	*	Therapeutics Inc.	328,248	3,542
*	89bio Inc.	331,274	4,330	*	Mustang Bio Inc.	2,112,015	3,506
*	Applied	331,274	4,330		TCR2	751 404	2 502
	Therapeutics Inc.	474,486	4,247	*,1	Therapeutics Inc. Theseus	751,404	3,502
*,1	Oncology	17 1, 100	1,217	, '	Pharmaceuticals Inc.	275,573	3,494
	Institute Inc.	432,741	4,219	*,1	Bolt	273,373	3,434
*	IntriCon Corp.	259,528	4,197		Biotherapeutics Inc.	706,665	3,463
*	Adverum			*,1	Adagio	,	-,
	Biotechnologies Inc.	2,374,987	4,180		Therapeutics Inc.	474,097	3,442
*,1	Dare Bioscience Inc.	2,082,157	4,164	*,1	Biomea Fusion Inc.	456,903	3,404
*,1	TherapeuticsMD Inc.	11,683,481	4,153	*,1	iBio Inc.	6,187,128	3,397
*,1	Rain			*,1	Inmune Bio Inc.	331,277	3,379
	Therapeutics Inc.	321,219	4,137	*,1	Aerovate		
*,1	Tyra Biosciences Inc.	293,500	4,130		Therapeutics Inc.	284,834	3,358
*	Alpha Teknova Inc.	200,207	4,100	*	Enzo Biochem Inc.	1,040,908	3,341
*	AirSculpt			*	Puma		
	Technologies Inc.	238,200	4,095		Biotechnology Inc.	1,097,795	3,337
*	Surface	056.450	4.000	*,1	Actinium	==0	
*,1	Oncology Inc.	856,153	4,092		Pharmaceuticals Inc.	552,928	3,323
- '	Frequency Therapeutics Inc.	793,072	4,068	*	Werewolf	075 770	2 205
*	Savara Inc.	3,255,385	4,000	*	Therapeutics Inc. Aptinyx Inc. Class A	275,778	3,285
*	Codiak	5,255,565	4,037	*	' '	1,227,261	3,277
	Biosciences Inc.	361,652	4,029		Eargo Inc.	640,326	3,266
		00.,002	.,020				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
		Silaies	(\$000)			Silates	(\$000)
*,1	Zynerba	4 400 474	0.050	*	Anixa	007044	0.750
	Pharmaceuticals Inc.		3,253	* 4	Biosciences Inc.	927,841	2,756
	Absci Corp.	395,572	3,244	*,1	180 Life Sciences	700 440	0.754
*	UpHealth Inc.	1,440,200	3,226		Corp.	706,110	2,754
*,1	Aquestive			*,1	Immuneering Corp.	400.000	0.700
	Therapeutics Inc.	818,252	3,183	*	Class A	168,833	2,730
*,1	Retractable				Assertio	4 0 4 4 0 4 0	0.740
	Technologies Inc.	458,342	3,176	*	Holdings Inc.	1,244,049	2,712
*,1	Rani Therapeutics				Aura Biosciences Inc.	159,493	2,708
	Holdings Inc.	100 110	0.157	*,1	RxSight Inc.	240,275	2,703
	Class A	193,116	3,157	*,1	Dyadic	F00 000	0.000
*	Otonomy Inc.	1,513,558	3,148		International Inc.	596,383	2,696
*	Avalo		0.400	*,1	Optinose Inc.	1,663,471	2,695
	Therapeutics Inc.	1,844,625	3,136	*,1	Quantum-Si Inc.	338,766	2,666
*,1	Athenex Inc.	2,301,777	3,130	*,1	Voyager		
*,1	Impel	004.007	0.400		Therapeutics Inc.	976,336	2,646
	Neuropharma Inc.	361,867	3,123	*	Terns		
	CVRx Inc.	254,646	3,114	*	Pharmaceuticals Inc.	372,824	2,636
*,1	Palatin	0.005.000	0.440	*	NeuBase	00000	0.004
	Technologies Inc.	6,085,329	3,113		Therapeutics Inc.	936,373	2,631
*,1	Sensei	EO 4 444	0.400		Rapid Micro		
	Biotherapeutics Inc.	534,441	3,100		Biosystems Inc.	0.40,071	0.005
*,1	Brooklyn			*	Class A	246,671	2,625
	ImmunoTherapeutics		3.086		Cabaletta Bio Inc.	686,920	2,603
*,1		740,159	-,	*,1	Trevena Inc.	4,456,224	2,596
*1	Pyxis Oncology Inc.	281,025	3,083	*,1	ATI Physical	704.000	0.500
	Assembly Biosciences Inc.	1 220 272	2.076	*	Therapy Inc.	764,606	2,592
*,1		1,320,373 1,146,273	3,076		Annovis Bio Inc.	146,966	2,584
*,1	MediciNova Inc.	, ,	3,072	*,1	Aspira Women's	1 457100	0.570
*,1	Oncorus Inc.	580,797	3,061	*,1	Health Inc.	1,457,103	2,579
-, 1	eFFECTOR	267012	2.020	",1	Prelude	205 570	2 550
*,1	Therapeutics Inc.	367,012	3,039	*	Therapeutics Inc.	205,579	2,559
-, 1	PhaseBio	1 156 506	2.010	*	FONAR Corp.	169,673	2,542
*	Pharmaceuticals Inc.	1,150,520	3,019		Repro-Med	040 010	0.507
	Convey Health Solutions			*	Systems Inc.	842,318	2,527
	Holdings Inc.	360,245	3,012		Concert Pharmaceuticals Inc.	707242	2 512
*,1	Ardelyx Inc.	2,730,304	3,003	*,1		797,343	2,512
*	Neuronetics Inc.	671,591	2,995	, '	Adamis Pharmaceuticals		
*,1	Ampio	071,551	2,333		Corp.	4,096,010	2,478
, .	Pharmaceuticals Inc.	5 246 099	2,990	*,1	SAB	4,000,010	2,470
*	Milestone	3,240,033	2,550	, .	Biotherapeutics Inc.	316,200	2.470
	Scientific Inc.	1,447,898	2,983	*	Eyenovia Inc.	617,303	2,469
*	Immunome Inc.	230,150	2,983	*,1	Eton	017,000	2,400
*,1	Lucira Health Inc.	343,109	2,954		Pharmaceuticals Inc.	575,285	2,468
*	Innovage Holding	343,103	2,334	*,1	Galectin	070,200	2,100
	Corp.	566,048	2,830		Therapeutics Inc.	1,189,409	2,462
*	Oncternal	300,040	2,030	*	GT Biopharma Inc.	799,666	2,439
	Therapeutics Inc.	1,243,288	2,822	*,1	Cyteir	700,000	2,100
*,1	ContraFect Corp.	1,071,148	2,817	,	Therapeutics Inc.	213,864	2,432
*,1	Surgalign	1,071,140	2,017	*,1	Atreca Inc. Class A	797,857	2,418
,.	Holdings Inc.	3,923,007	2,810	*	Electromed Inc.	185,812	2,416
*	Invacare Corp.	1,023,221	2,783	*,1	Astria	100,012	2,410
*	Nautilus	1,020,221	2,700	, .	Therapeutics Inc.	445,544	2,401
	Biotechnology Inc.			*	Solid	770,044	۷,401
	Class A	535,900	2,776		Biosciences Inc.	1,370,035	2,398
*	Tela Bio Inc.	216,147	2,767	*	scPharmaceuticals	.,0.0,000	2,000
		2.0,117	_,,,,,		Inc.	473,934	2,379
							,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Lincoino Inc			*,1	Gemini		(+/
*	Lipocine Inc. Hepion	2,398,282	2,377	, '	Therapeutics Inc.		
	Pharmaceuticals Inc.	2 070 833	2,361		Class A	681,589	1,983
*	Acumen	2,0,0,000	2,001	*	Eledon	,	,
	Pharmaceuticals Inc.	348,229	2,354		Pharmaceuticals Inc.	447,798	1,975
*,1	Clene Inc.	573,521	2,351	*	CASI		
*,1	Omega				Pharmaceuticals Inc.		1,974
	Therapeutics Inc.	206,410	2,339	*	GlycoMimetics Inc.	1,369,767	1,972
*,1	SELLAS Life	440.074	0.047	*,1	Corvus Pharmaceuticals Inc.	010 011	1 071
*	Sciences Group Inc.	419,071	2,317	*	Summit	818,011	1,971
	Satsuma Pharmaceuticals Inc.	511,816	2,303		Therapeutics Inc.	731,303	1,967
*	Cidara	311,010	2,000	*,1	Tyme	, 0 . , 0 0 0	.,00,
	Therapeutics Inc.	1,796,543	2,282		Technologies Inc.	3,251,941	1,961
*	IRIDEX Corp.	373,047	2,279	*	Recro Pharma Inc.	1,130,309	1,933
*	Cyclerion		,	*	Angion Biomedica		
	Therapeutics Inc.	1,323,224	2,276		Corp.	665,973	1,931
*	Inozyme Pharma Inc.	329,841	2,250	*	Protara		
*	Decibel				Therapeutics Inc.	284,301	1,919
	Therapeutics Inc.	483,353	2,248	*	Renovacor Inc.	247,032	1,902
*,1	Novan Inc.	533,970	2,227	*	Codex DNA Inc.	175,221	1,892
*	La Jolla	470.000	0.000		DiaMedica	E06 071	1 000
	Pharmaceutical Co.	478,002	2,223	*,1	Therapeutics Inc. BioSig	506,271	1,888
	Point Biopharma Global Inc. Class A	200 126	2 170	, '	Technologies Inc.	833,444	1,859
*	NextCure Inc.	389,126 362,876	2,179 2,177	*	UNITY	000,444	1,000
*,1	Surrozen Inc.	337,956	2,177		Biotechnology Inc.	1,262,875	1,844
*	Corbus	007,000	2,170	*,1	Reneo		
	Pharmaceuticals				Pharmaceuticals Inc.	214,913	1,838
	Holdings Inc.	3,521,570	2,168	*	NeuroPace Inc.	180,700	1,821
*	NexImmune Inc.	468,043	2,158	*,1	Delcath Systems Inc.	234,851	1,820
*	Sensus			*	Rallybio Corp.	189,993	1,813
	Healthcare Inc.	297,679	2,149	*,1	SOC Telemed Inc.		
*	F-star				Class A	1,411,966	1,807
	Therapeutics Inc.	427,852	2,148	*	Greenwich	70.700	1 705
*,1 *	Heat Biologics Inc.	705,534	2,145	*,1	Lifesciences Inc. Achieve Life	73,763	1,795
*,1	Equillium Inc.	570,835	2,141	, '	Sciences Inc.	230,562	1,794
*	Humacyte Inc. Sanara Medtech Inc.	295,041	2,139	*,1	AcelRx	200,002	1,754
*,1	Jasper	69,768	2,122		Pharmaceuticals Inc.	3,199,151	1,792
,.	Therapeutics Inc.	269,524	2,116	*	Sio Gene		
*,1	T2 Biosystems Inc.	4,092,293	2,112		Therapies Inc.	1,382,708	1,784
*	Champions	1,002,200	2,112	*,2	Alder		
	Oncology Inc.	263,922	2,111		Biopharmaceuticals		
*	Candel				Inc. CVR Exp.	2 021 007	1 770
	Therapeutics Inc.	269,900	2,111	*	12/31/24 Talis Biomedical	2,021,007	1,778
*	Pro-Dex Inc.	87,581	2,091		Corp.	434,170	1.741
*,1	Applied Genetic			*,1	Capricor	404,170	1,7-
	Technologies Corp.	1,084,366	2,060		Therapeutics Inc.	587,714	1,722
*,1	IsoPlexis Corp.	222,915	2,049	*,1	Biolase Inc.	4,390,729	1,712
*	Lantern Pharma Inc.	256,113	2,044	*,1	Kala		
*	Movano Inc.	532,959	2,025		Pharmaceuticals Inc.	1,407,086	1,703
*	Acutus Medical Inc. Elevation	593,445	2,024	*	Ocuphire Pharma Inc.	451,409	1,684
-	Oncology Inc.	332,316	2,001	*	CareCloud Inc.	266,292	1,683
*	Eliem	332,310	2,001	*	Orgenesis Inc.	566,688	1,632
	Therapeutics Inc.	189,734	1,985	*,1	Evofem		
		/ / 0 .	.,000		Biosciences Inc.	4,334,863	1,628

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Marker			*	Armata		
	Therapeutics Inc.	1,668,739	1,586		Pharmaceuticals Inc.	237,161	1,300
*,1	Oragenics Inc.	3,556,869	1,586	*	Lumos Pharma Inc.	187,322	1,300
*	Five Star Senior			*	Sonendo Inc.	224,928	1,296
	Living Inc.	537,058	1,584	*	Biodesix Inc.	240,520	1,272
*,1	Biocept Inc.	432,578	1,566	*	Aileron		
*	Agile				Therapeutics Inc.	2,231,531	1,256
	Therapeutics Inc.	3,195,980	1,560	*	Axcella Health Inc.	600,853	1,256
*,1	Allena			*,1	Kaleido		
	Pharmaceuticals Inc.	2,621,736	1,553		Biosciences Inc.	524,178	1,253
*	LENSAR Inc.	255,116	1,520	*	Aptevo		
*	Checkmate				Therapeutics Inc.	158,476	1,247
	Pharmaceuticals Inc.	528,940	1,518	*	Calithera		
*,1	VYNE				Biosciences Inc.	1,858,409	1,236
	Therapeutics Inc.	1,479,066	1,509	*	Myomo Inc.	180,412	1,235
*,1	Galera			*,1	Jaguar Health Inc.	1,164,170	1,211
	Therapeutics Inc.	328,358	1,507	*	Eloxx	.,,	.,
*,1	Genprex Inc.	1,144,222	1,499		Pharmaceuticals Inc.	1.725.475	1,208
*,1	Onconova			*,1	Zosano Pharma Corp.		1,207
	Therapeutics Inc.	586,842	1,496	*	AIM	2,000,070	1,207
*	Caladrius		,		ImmunoTech Inc.	1,311,599	1,207
	Biosciences Inc.	1,775,055	1,494	*	Reviva	1,011,000	1,207
*	Cocrystal	, .,	, -		Pharmaceuticals		
	Pharma Inc.	2,296,304	1,493		Holdings Inc.	409,332	1,158
*	Processa	_,,	.,	*,1	Microbot	100,002	1,100
	Pharmaceuticals Inc.	299,657	1,468		Medical Inc.	153,549	1,152
*,1	Rezolute Inc.	305,100	1,458	*	Psychemedics Corp.	165,415	1,148
*,1	Biomerica Inc.	374,536	1,457	*	Moleculin	103,413	1,140
*	Merrimack	374,330	1,437		Biotech Inc.	616,108	1,146
	Pharmaceuticals Inc.	369,998	1,447	*,1	Chembio	010,100	1,140
*	Lannett Co. Inc.	890,245		,,	Diagnostics Inc.	000 196	1 120
*	X4	090,240	1,442	*	Tracon	999,186	1,139
	Pharmaceuticals Inc.	626,285	1,434		Pharmaceuticals Inc.	406,424	1,126
*,1	Sonida Senior	020,200	1,404	*,1	NanoViricides Inc.		
,,	Living Inc.	E0 0E6	1 426	*,1		300,189	1,117
*	-	50,056	1,426	",1	Adial	412 407	1 116
	Thorne HealthTech Inc.	227,118	1,410		Pharmaceuticals Inc.	413,497	1,116
*,1		227,110	1,410		Indaptus	104 E41	1 100
, '	Genocea Biosciences Inc.	1,214,942	1,409	*	Therapeutics Inc.	194,541	1,109
*,1					Hookipa Pharma Inc.	470,973	1,097
*,1	IsoRay Inc.	3,609,244	1,400	*,1	PolarityTE Inc.	1,866,000	1,095
-,1	Second Sight Medical			*,1	NeuroMetrix Inc.	217,846	1,094
		056 501	1 200	*,1	enVVeno Medical		
*,1	Products Inc.	856,591	1,396		Corp.	160,154	1,055
-,1	Aprea	100 116	1 205	*	Precipio Inc.	662,055	1,046
*	Therapeutics Inc.	482,446	1,385	*,1	Tempest		
* 4	Venus Concept Inc.	813,187	1,382		Therapeutics Inc.	196,177	1,036
*,1	Roivant Sciences Ltd.	134,798	1,359	*	Minerva Surgical Inc.	199,982	1,028
*,1 *	Ontrak Inc.	215,767	1,357	*,1	Talkspace Inc.	511,882	1,008
	IO Biotech Inc.	205,200	1,348	*	Lucid		
*	Longboard				Diagnostics Inc.	186,179	1,000
	Pharmaceuticals Inc.	278,227	1,347	*	ElectroCore Inc.	1,693,367	986
*,1	Avinger Inc.	2,983,044	1,342	*,1	cbdMD Inc.	910,106	983
*,1	Predictive			*,1	Spruce		
	Oncology Inc.	1,385,931	1,319		Biosciences Inc.	219,817	980
*,1	Celsion Corp.	2,428,865	1,312	*,1	Aridis	,	
*,1	Cumberland				Pharmaceuticals Inc.	419,974	979
	Pharmaceuticals Inc.	280,820	1,311				

		Charra	Market Value•			Charra	Market Value*
		Shares	(\$000)			Shares	(\$000)
*,1	Ensysce			*	Aravive Inc.	350,260	767
	Biosciences Inc.	206,600	971	*	Catalyst		
*	OpGen Inc.	968,530	969		Biosciences Inc.	826,502	755
*	Sigilon	0.40.050	000	*	Marpai Inc. Class A	172,000	753
	Therapeutics Inc.	349,052	963	*	Yumanity	050 447	750
	NantHealth Inc.	894,058	943	* 1	Therapeutics Inc.	253,447	750
	LogicBio	404 761	025	*,1	Longeveron Inc.	61,900	747
*	Therapeutics Inc.	404,761	935	*,1	Better	100 000	745
	Minerva Neurosciences Inc.	1,156,640	926	*	Therapeutics Inc.	160,300	745 730
*,1	HTG Molecular	1,130,040	320	*	Lyra Therapeutics Inc. Ekso Bionics	167,443	/30
	Diagnostics Inc.	170,349	923		Holdings Inc.	269,736	715
*	Diffusion	., 0,0 .0	020	*,1	Bright Health	203,730	713
	Pharmaceuticals Inc.	3.008.350	918		Group Inc.	203,739	701
*,1,2	Tobira	.,,		*,1	Qualigen	200,700	,
	Therapeutics Inc.				Therapeutics Inc.	637,185	682
	CVR Exp. 12/31/28	201,001	911	*	Miromatrix	,	
*	IMARA Inc.	403,870	909		Medical Inc.	146,672	682
*,1	Vallon			*,1	Bellerophon		
	Pharmaceuticals Inc.	148,800	890		Therapeutics Inc.	219,538	681
*,1	Synthetic			*	ReShape		
	Biologics Inc.	3,260,633	888		Lifesciences Inc.	411,000	674
*,1	Rockwell			*	Xenetic		
	Medical Inc.	2,138,698	877		Biosciences Inc.	519,743	670
*,1	Organovo			*	Sonnet		
	Holdings Inc.	237,956	864		BioTherapeutics		
*,1	Allied Healthcare		057		Holdings Inc.	1,620,560	669
	Products Inc.	147,174	857	*	Augmedix Inc.	212,392	669
	TScan	100.010	054	*	Entasis Therapeutics		007
*	Therapeutics Inc.	189,818	854		Holdings Inc.	304,345	667
	Cyclacel Pharmaceuticals Inc.	220,333	853	*,1	Cyclo	170.040	057
*	Sera Prognostics Inc.	220,333	000	*	Therapeutics Inc.	176,043	657
	Class A	123,881	851		Forte Biosciences Inc.	204 501	652
*,1	Virpax	120,001	001	*	Virios	304,501	002
	Pharmaceuticals Inc.	247,037	847		Therapeutics Inc.	127,068	651
*	Cryo-Cell	2 17,007	0.,	*	Aethlon Medical Inc.	342,003	636
	International Inc.	72,236	838	*	Inhibikase	042,000	000
*	Abeona				Therapeutics Inc.	424,359	624
	Therapeutics Inc.	2,478,609	835	*,1	vTv Therapeutics Inc.	.2 .,000	02.
*,1	Windtree				Class A	625,032	622
	Therapeutics Inc.	516,220	829	*,1	Pulmatrix Inc.	1,418,189	621
*	INVO BioScience Inc.	248,469	827	*	Odonate	, .,	
*,1	Biofrontera Inc.	110,000	827		Therapeutics Inc.	449,600	607
*	Vyant Bio Inc.	600,669	811	*,1	Aditxt Inc.	1,132,345	607
*,1	Soligenix Inc.	1,217,959	804	*,1	Sharecare Inc.	134,370	603
*,1	Aytu BioPharma Inc.	595,596	804	*	Graybug Vision Inc.	328,531	601
*	Landos			*,1	GeoVax Labs Inc.	165,070	598
	Biopharma Inc.	167,023	802	*,1	Scopus	,	
*	Cellectar				Biopharma Inc.	359,481	588
	Biosciences Inc.	1,204,554	800	*,1	Regulus		
*,1	Vivos	050			Therapeutics Inc.	1,847,824	582
_	Therapeutics Inc.	353,118	795	*	Plus		
*	ImmuCell Corp.	99,344	794		Therapeutics Inc.	553,702	581
*	ENDRA Life	4 405 015	700	*	Imac Holdings Inc.	508,049	579
	Sciences Inc.	1,135,615	786	*,1	Cue Health Inc.	43,191	579
*	Strata Skin	E06.040	774	*	BioVie Inc. Class A	126,527	569
	Sciences Inc.	526,219	774	*	BioCardia Inc.	290,342	563

ARCA biopharma Inc. 251,085 540 Cognition Therapeutics Inc. 51,490 325			Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
Therapeutics Inc. 1,085,219 538 Therapeutics Inc. 51,490 325		•		541			1,640,265	331
Daxor Corp.		Salarius				Therapeutics Inc.	51,490	325
Therapeutics Inc. 1,026,487 524 HEALTH Inc. 128,731 301	*	Daxor Corp.	, ,			BioPharma Inc.	210,625	304
Biosciences Inc. 563,792 524 CNS Pharmaceuticals Inc. 421,966 296	*	Therapeutics Inc.	1,026,487	524	*	HEALTH Inc.		301
1 TransCode Therapeutics Inc. 200,117	*	Biosciences Inc.			*	CNS		
Idera	*,1	TransCode			*,1	Avenue	,	
**** Vaccinex Inc.	*	Idera			*	Helius Medical	314,390	200
** NeuroBo Pharmaceuticals Inc. 409,413	* 1						53 162	275
* Soleno Therapeutics Inc. 1,201,052		NeuroBo			*	Aziyo Biologics Inc.		
Bellicum	*	Soleno	,			Palisade Bio Inc.		255
**Cohbar Inc. 1,381,105	*,1	Bellicum			*	Biopharma plc CVR	1,399,363	253
Therapeutics Inc. 180,700 481 CVR 3415,255 249 1 iSpecimen Inc. 60,400 472 1 Metacrine Inc. 368,353 248 AgeX Therapeutics Inc. 426,190 465 1 Vaxxinity Inc. Class A 36,674 206 2 Bio-Path Holdings Inc. 121,084 456 Tenax Therapeutics Inc. 75,316 453 Therapeutics Inc. 170,751 195 Navidea Biopharmaceuticals Inc. 450,277 450 2 Ocera Therapeutics Inc. 182,545 184 1 Kiromic BioPharma Inc. 281,953 431 Therapeutics Inc. 52,392 169 2 Alimera Sciences Inc. 83,422 427 Monopar Therapeutics Inc. 1,853,966 424 Thera					* 0	Therapeutics Inc.	108,596	250
Specimen Inc.	*,1		400 700	404	,2		/1E 2EE	240
AgeX	1				*.1			
Therapeutics Inc. 426,190 465 *.1 Vaxxinity Inc. Class A 36,674 206 * Bio-Path			60,400	4/2				
Bio-Path			426 100	465		•		
* Nephros Inc.	*	Bio-Path				Nuwellis Inc.		195
* Navidea Biopharmaceuticals Inc.	*	•					179 /55	196
Inc.	*	Navidea	/5,316	453	*	ThermoGenesis		
Therapeutics Inc. 183,484 439 CVR 653,477 176 * Kiromic BioPharma Inc. 281,953 431 Therapeutics Inc. 52,392 169 * Alimera Sciences Inc. 83,422 427 Protagenic Therapeutics Inc. 121,310 168 * OncoSec Medical Inc. 435,534 418 Pharmaceuticals Inc. CVR 2,522,158 152 * I Evoke Pharma Inc. 739,706 414 CVR 2,522,158 152 * I Clarus Therapeutics Holdings Inc. 166,600 405 Pharmaceuticals Inc. 43,424 145 * SiNtx Technologies Inc. 594,838 382 HCW Biologics Inc. 59,200 137 * Hoth Therapeutics Inc. 678,172 352 Pharmaceuticals Inc. 84,490 128 * Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 * Timber Pharmaceuticals Inc. 902,107 343 RA Medical States Inc. 10,979 Inc. 100 * In Novo Integrated Sciences Inc. 196,590 344 In Novo Therapeutics Inc. 10,979 125 * Timber Pharmaceuticals Inc. 902,107 343 RA Medical States Inc. 10,979 Inc. 1	* 1	Inc.	450,277	450	*,2	Ocera	102,545	104
Riromic BioPharma Inc. 281,953 431 Therapeutics Inc. 52,392 169	^,1	Therapeutics Inc.	183,484	439		CVR	653,477	176
* Alimera Sciences Inc. 83,422 427 * Protagenic * Brickell Biotech Inc. 1,853,966 424 Therapeutics Inc. 121,310 168 * OncoSec Medical Inc. 435,534 418 Pharmaceuticals Inc. CVR 2,522,158 152 * I Evoke Pharma Inc. 739,706 414 Petros Pharmaceuticals Inc. 43,424 145 * I Clarus Therapeutics Holdings Inc. 166,600 405 Pharmaceuticals Inc. 43,424 145 * I Synaptogenix Inc. 47,303 403 Phio Pharmaceuticals Corp. 141,542 142 * I SiNtx Technologies Inc. 594,838 382 HCW Biologics Inc. 59,200 137 * Hoth Therapeutics Inc. 550,481 363 Pharmaceuticals Inc. 131,533 134 * Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 131,533 134 * Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 * Timber Pharmaceuticals Inc. 196,590 344 1 InVivo Therapeutics Holdings Corp. 258,651 118 * RA Medical Support Pharmaceuticals Inc. 10,916 110	*		004.050	404			E2 202	160
* Brickell Biotech Inc. 1,853,966 424 Therapeutics Inc. 121,310 168 * OncoSec Medical Inc. 435,534 418 Pharmaceuticals Inc. CVR 2,522,158 152 **I Evoke Pharma Inc. 739,706 414 CVR 2,522,158 152 **I Clarus Therapeutics Holdings Inc. 166,600 405 Pharmaceuticals Inc. 43,424 145 **I Synaptogenix Inc. 47,303 403 Phio Pharmaceuticals Corp. 141,542 142 **I SiNtx Technologies Inc. 594,838 382 HCW Biologics Inc. 59,200 137 **Hoth Therapeutics Inc. 550,481 363 HCW Biologics Inc. 131,533 134 **Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 131,533 134 **Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 84,490 128 **Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 **Timber Pharmaceuticals Inc. 196,590 344 **I InVivo Therapeutics Holdings Corp. 258,651 118 **Timber Pharmaceuticals Inc. 902,107 343 RA Medical Streeps Inc. 20,916 119	*				*	'	32,332	103
* OncoSec Medical Inc. 435,534 418 Pharmaceuticals Inc. CVR 2,522,158 152 **I Evoke Pharma Inc. 739,706 414 CVR 2,522,158 152 **I Clarus Therapeutics Holdings Inc. 166,600 405 Pharmaceuticals Inc. 43,424 145 **I Synaptogenix Inc. 47,303 403 Phio Pharmaceuticals Corp. 141,542 142 **I SiNtx Technologies Inc. 594,838 382 HCW Biologics Inc. 59,200 137 **Hoth Therapeutics Inc. 550,481 363 Pharmaceuticals Inc. 131,533 134 **Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 131,937 125 **Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 **Timber Pharmaceuticals Inc. 902,107 343 RA Medical Statements Inc. 141,542 142 **Integrated Sciences Inc. 255,651 118	*					0	121,310	168
*.1 Evoke Pharma Inc. 739,706 414 CVR 2,522,158 152 *.1 Clarus Therapeutics Holdings Inc. 166,600 405 Pharmaceuticals Inc. 43,424 145 *.1 Synaptogenix Inc. 47,303 403 Phio Pharmaceuticals Corp. 141,542 142 *.1 SiNtx Technologies Inc. 594,838 382 HCW Biologics Inc. 59,200 137 * Hoth Therapeutics Inc. 550,481 363 Pharmaceuticals Inc. 131,533 134 * Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 119,979 125 * Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 * Timber Pharmaceuticals Inc. 902,107 343 RA Medical States Pharmaceuticals Inc. 10,916 110	*		435 534	418	*,2			
Holdings Inc.		Evoke Pharma Inc.			1		2,522,158	152
*.1 SiNtx Technologies Inc.		Holdings Inc.			*	Pharmaceuticals Inc.	43,424	145
Technologies Inc. 594,838 382		, , ,	47,303	403			141.542	142
Therapeutics Inc. 550,481 363 Pharmaceuticals Inc. 131,533 134 * Artelo Biosciences Inc. 678,172 352 Pharmaceuticals Inc. 84,490 128 * Novo Integrated Sciences Inc. 255,940 351 Sonoma Pharmaceuticals Inc. 27,155 124 * Therapeutics Inc. 196,590 344 *.1 InVivo Therapeutics Therapeutics Inc. 902,107 343 RA Medical	",1	Technologies Inc.	594,838	382	*	HCW Biologics Inc.		137
Novo Integrated Sciences Inc. 678,172 352 Pharmaceuticals Inc. 84,490 128	*	Therapeutics Inc.	550,481	363	*	Pharmaceuticals Inc.	131,533	134
* Novo Integrated Sciences Inc. 255,940 351 * Sonoma Pharmaceuticals Inc. 27,155 124 *.1 Panbela Pharmaceutics Inc. 196,590 344 *.1 InVivo Therapeutics Holdings Corp. 258,651 118 *.1 Timber Pharmaceuticals Inc. 902,107 343 * RA Medical Statements Inc. 10,979 129 *.1 Timber Pharmaceuticals Inc. 902,107 343 * RA Medical Statements Inc. 170,979 129 *.2 Statements Inc. 170,979 129 *.3 Sonoma Pharmaceuticals Inc. 27,155 124 *.4 InVivo Therapeutics Holdings Corp. 258,651 118	*	Biosciences Inc.	678,172	352	*	Pharmaceuticals Inc.		128
Therapeutics Inc. 196,590 344 *.1 InVivo Therapeutics Therapeutics Inc. 196,590 344 *.1 InVivo Therapeutics Holdings Corp. 258,651 118 Pharmaceuticals Inc. 902,107 343 * RA Medical	*	Sciences Inc.	255,940	351	*	Sonoma	,	
Pharmaceuticals Inc. 902,107 343 * RA Medical			196,590	344	*,1	InVivo Therapeutics		
Findiffiaceuticals life. 902,107 545 Systems Inc. 70,916 110	*,1		002 107	242	*		∠58,651	118
	*						70,816	110

	Sha	vroo.	Market Value• (\$000)			Shares	Market Value• (\$000)
*		ires	(\$000)			Shares	(2000)
	American Shared Hospital Services 36,3	220	86		Raytheon Technologies Corp.	42,537,683	2 660 702
*	NovaBay	000	00	*	Boeing Co.	16,703,485	3,660,793 3,362,746
	Pharmaceuticals Inc. 218,0	147	82		Caterpillar Inc.	15,374,036	3,178,428
*,2	OncoMed 210,0	, ,	02		Automatic Data	15,574,050	3,170,420
	Pharmaceuticals Inc.				Processing Inc.	11,975,413	2,952,897
	CVR 255,7	777	67		General Electric Co.	31,211,377	2,948,539
*	Unicycive				3M Co.	16,376,884	2,909,026
	Therapeutics Inc. 22,6	595	47		Deere & Co.	7,931,030	2,719,471
*,1,2	Miragen				American Express	7,001,000	2,710,471
	Therapeutics Inc.				Co.	16,510,377	2,701,098
	CVR 1,753,0	041	35		CSX Corp.	63,038,002	2,370,229
*	Viveve Medical Inc. 27,0	095	31		Lockheed Martin	00,000,002	2,0,0,220
*	Lixte Biotechnology				Corp.	6,661,763	2,367,657
	Holdings Inc. 25,9	995	31		Sherwin-Williams Co.		2,361,750
*	Trevi		0.5		Norfolk Southern	.,,	, ,
	Therapeutics Inc. 32,3	341	25		Corp.	6,916,283	2,059,047
*,2	Elanco Animal	157	15		Illinois Tool		
*,2	Health Inc. CVR 575,4	15/	15		Works Inc.	8,027,424	1,981,168
,2	Alexza Pharmaceuticals Inc.				Eaton Corp. plc	11,328,049	1,957,713
	CVR 327,3	291	11		Fidelity National		
*,1,2	Oncternal	JJ 1	- ''		Information		
,.,_	Therapeutics Inc.				Services Inc.	17,306,430	1,888,997
		933	9	*	Block Inc. Class A	11,344,852	1,832,307
*,2	F-star		_		FedEx Corp.	6,794,454	1,757,318
	Therapeutics Inc.				Capital One Financial		
	CVR 61,0)21	4		Corp.	12,096,860	1,755,133
*,2	Ambit Biosciences			*	Fiserv Inc.	16,887,417	1,752,745
	Corp. CVR 201,3	330	_		Johnson Controls	00 040 050	4 00==00
*,2	Biosante				International plc	20,018,859	1,627,733
	Pharmaceutical Inc.				Emerson Electric Co.	16,906,920	1,571,836
	CVR 253,8	323	_		Northrop Grumman	4.055.057	1 500 501
*,1,2	Synergy				Corp.	4,055,057	1,569,591
	Pharmaceuticals LLC 5,148,1	145	_		General Dynamics	6 7/2 020	1 405 000
	Advaxis Inc. Warrants	260			Corp.	6,743,839	1,405,888
*	Exp. 9/11/24 157,6	000	_		Trane Technologies plc	6,751,548	1,364,015
	Geron Corp. Warrants Exp. 12/31/25 1,202,4	110	_		IHS Markit Ltd.	10,202,389	1,356,102
*,2	Lantheus	+10	_		Carrier Global Corp.	24,630,695	1,335,969
,-	Holdings Inc. CVR 2,319,5	511	_		Paychex Inc.	9,222,161	1,258,825
*,1,2	Aerpio 2,010,0	011			DuPont de	3,222,101	1,230,023
	Pharmaceuticals Inc.				Nemours Inc.	14,725,665	1,189,539
	CVR 1,201,3	352	_		L3Harris	11,720,000	1,100,000
		17	7/ 701 102		Technologies Inc.	5,576,548	1,189,143
Indu	strials (12.8%)	17	4,791,182		PPG Industries Inc.	6,748,909	1,163,782
illuus	, ,	702 1	0 225 160		Parker-Hannifin Corp.	3,652,666	1,161,986
	Visa Inc. Class A 47,229,7 Mastercard Inc.	193 1	0,235,168		Rockwell	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, . ,
	Class A 24,931,6	383	8,958,452		Automation Inc.	3,296,059	1,149,830
	Accenture plc	505	0,000,402		Global Payments Inc.		1,114,743
	Class A 18,664,1	148	7,737,223	*	Mettler-Toledo		
*	PayPal Holdings Inc. 33,392,2		6,297,108		International Inc.	653,233	1,108,674
	Union Pacific Corp. 18,270,6		4,602,928		Cintas Corp.	2,497,931	1,107,008
	United Parcel		.,502,020	*	Keysight		
	Service Inc. Class B 20,722,2	276	4,441,613		Technologies Inc.	5,169,026	1,067,456
	Honeywell	-	, ,		Old Dominion Freight		
	International Inc. 19,564,7	783	4,079,453		Line Inc.	2,942,095	1,054,388
					Otis Worldwide Corp.	12,072,522	1,051,154

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Verisk Analytics Inc.	4,579,618	1,047,496		Nordson Corp.	1,486,269	379,400
	Equifax Inc.	3,467,700	1,015,308		RPM International Inc.	3,683,798	372,064
*	AMETEK Inc.	6,573,205	966,524				
*	TransDigm Group Inc. Zebra Technologies	1,491,341	948,910		Cognex Corp. Carlisle Cos. Inc.	4,773,117 1,485,937	371,158 368,691
	Corp. Class A	1,519,379	904,334		Packaging Corp. of		
	Cummins Inc.	4,065,214	886,786		America	2,700,199	367,632
	Ball Corp.	9,205,755	886,238		Jack Henry &		
	Stanley Black & Decker Inc.				Associates Inc. Howmet	2,103,072	351,192
		4,634,979	874,250		Aerospace Inc.	10,931,721	347,957
	PACCAR Inc.	8,880,440	783,788		Pentair plc	4,700,232	343,258
	Vulcan Materials Co.	3,771,087	782,802		HEICO Corp. Class A	2,665,500	342,570
	Martin Marietta	1 770 700	701 007				
	Materials Inc.	1,773,738	781,367		Allegion plc Robert Half	2,549,599	337,669
	Dover Corp.	4,092,079	743,122		International Inc.	3,005,983	335,227
	Fortive Corp.	9,681,333	738,589		Westrock Co.	7,533,091	334,168
	Synchrony Financial	15,555,842	721,635				
	Ingersoll Rand Inc.	11,584,687	716,745		Snap-on Inc.	1,525,432	328,548
*	Bill.com Holdings Inc.		689,922		Regal Rexnord Corp.	1,926,389	327,833
*	United Rentals Inc.	2,057,134	683,565		A O Smith Corp.	3,787,464	325,154
	Expeditors				Booz Allen Hamilton	0.004.510	200 505
	International of				Holding Corp.	3,804,519	322,585
	Washington Inc.	4,814,466	646,535		Hubbell Inc. Class B	1,546,059	321,998
*	Waters Corp.	1,734,705	646,351		Fair Isaac Corp.	738,607	320,312
	TransUnion	5,445,186	645,690	*	AECOM	4,040,047	312,498
	WW Grainger Inc.	1,244,771	645,090	*	Middleby Corp.	1,581,110	311,099
*	Generac				Lennox		
	Holdings Inc.	1,794,052	631,363		International Inc.	936,314	303,703
*	Trimble Inc.	7,132,801	621,909		Toro Co.	3,022,749	302,003
	Xylem Inc.	5,125,050	614,596	*	GXO Logistics Inc.	3,261,776	296,267
*	Teledyne				Watsco Inc.	938,802	293,732
	Technologies Inc.	1,325,618	579,149	*	Axon Enterprise Inc.	1,848,745	290,253
	IDEX Corp.	2,162,213	510,974	*	Berry Global		
	Jacobs Engineering				Group Inc.	3,852,739	284,255
	Group Inc.	3,664,261	510,175		Sealed Air Corp.	4,209,805	284,036
*	Affirm Holdings Inc.				Genpact Ltd.	5,347,655	283,854
	Class A	5,029,168	505,733	*	Mohawk		
*	FleetCor				Industries Inc.	1,540,469	280,643
	Technologies Inc.	2,192,243	490,712	*	Sensata Technologies		
	JB Hunt Transport				Holding plc	4,503,652	277,830
	Services Inc.	2,387,451	487,995		MKS		
	Masco Corp.	6,936,294	487,067		Instruments Inc.	1,576,179	274,523
	Textron Inc.	6,265,189	483,673		Tetra Tech Inc.	1,531,830	260,105
*	Builders			*	WillScot Mobile Mini		
	FirstSource Inc.	5,443,061	466,525		Holdings Corp.	6,340,007	258,926
	Westinghouse Air			*	Paylocity Holding		
	Brake Technologies		404 505		Corp.	1,096,274	258,896
	Corp.	5,043,281	464,537		Knight-Swift		
	Quanta Services Inc.	4,049,178	464,279		Transportation		
*	Trex Co. Inc.	3,272,372	441,868		Holdings Inc.	4 0 40 601	250 605
	Fortune Brands				Class A	4,243,601	258,605
	Home &	0.057000	410 410	*	Owens Corning	2,856,341	258,499
	Security Inc.	3,857,903	412,410		TopBuild Corp.	935,830	258,205
	Crown Holdings Inc.	3,634,142	402,009	*	Saia Inc.	748,741	252,348
	CH Robinson	0.000.040	007547		ITT Inc.	2,432,854	248,613
	Worldwide Inc.	3,693,642	397,547		Lincoln Electric	1 077000	004.000
	Graco Inc.	4,828,656	389,286		Holdings Inc.	1,677,993	234,030

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	AptarGroup Inc.	1,869,590	228,987	*	AZEK Co. Inc.		
	Brunswick Corp.	2,189,333	220,531		Class A	3,082,118	142,517
	Littelfuse Inc.	699,882	220,239		Maximus Inc.	1,757,834	140,047
	Oshkosh Corp.	1,919,016	216,292	*	API Group Corp.	5,426,717	139,846
*		1,919,010	210,292		John Bean	3,420,717	100,040
	Axalta Coating Systems Ltd.	6,490,779	214 075		Technologies Corp.	903,409	138,727
*	'		214,975		Air Lease Corp.	300,403	100,727
	XPO Logistics Inc.	2,773,904	214,783		Class A	3,079,310	136,198
	Huntington Ingalls	1 100 004	212 200	*	Summit	3,073,310	130,130
	Industries Inc.	1,136,864	212,298		Materials Inc.		
	Acuity Brands Inc.	994,559	210,568		Class A	3,371,531	135,333
	Donaldson Co. Inc.	3,512,218	208,134	*	ExIService	0,071,001	100,000
	Advanced Drainage	4 540 707	000 754		Holdings Inc.	899,778	130,261
	Systems Inc.	1,518,797	206,754		Spirit AeroSystems	000,770	100,201
	Western Union Co.	11,423,469	203,795		Holdings Inc.		
	AGCO Corp.	1,702,101	197,478		Class A	2,989,104	128,800
	Louisiana-Pacific				BWX	_,	,
	Corp.	2,502,062	196,037		Technologies Inc.	2,620,801	125,484
	Landstar System Inc.		193,964		Insperity Inc.	1,043,148	123,206
	EMCOR Group Inc.	1,520,272	193,667		HB Fuller Co.	1,495,356	121,124
	Eagle Materials Inc.	1,155,989	192,426		Ryder System Inc.	1,450,933	119,600
*	WESCO				Zurn Water Solutions	1,430,333	113,000
	International Inc.	1,435,999	188,963		Corp.	3,275,254	119,219
	Woodward Inc.	1,703,379	186,452		•		
*	Coherent Inc.	697,186	185,828	*	Korn Ferry	1,549,822	117,368
*	Colfax Corp.	3,959,768	182,031	*,1	ACI Worldwide Inc.	3,347,791	116,168
	nVent Electric plc	4,776,182	181,495	",1	TuSimple		
*	WEX Inc.	1,273,491	178,785		Holdings Inc. Class A	3,224,468	115,597
	MDU Resources	.,,	,		Triton International	3,224,400	115,597
	Group Inc.	5,790,677	178,584		Ltd.	1,898,667	114,357
*	ASGN Inc.	1,406,533	173,566				
	Exponent Inc.	1,479,699	172,725		Flowserve Corp.	3,705,338	113,383
	Simpson	1,470,000	172,720		Applied Industrial	1 004 400	110 400
	Manufacturing Co.				Technologies Inc.	1,094,480	112,403
	Inc.	1,235,164	171,774		Herc Holdings Inc.	717,193	112,277
	Graphic Packaging	.,,	,		Allison Transmission	2.064.007	107774
	Holding Co.	8,744,417	170,516		Holdings Inc.	2,964,907	107,774
*	Euronet	-,,	,	*	Matson Inc.	1,194,391	107,531
	Worldwide Inc.	1,427,296	170,091	Ĵ	TriNet Group Inc.	1,120,880	106,775
*	Chart Industries Inc.	1,034,295	164,960		Resideo	4 00 4 070	400 500
*	AMN Healthcare	.,00 .,200	.0.,000		Technologies Inc.	4,094,970	106,592
	Services Inc.	1,344,408	164,461		MSC Industrial Direct	1 200 275	100 451
	Sonoco Products Co.		161,780		Co. Inc. Class A	1,266,375	106,451
	MSA Safety Inc.	1,058,319	159,764		Franklin Electric Co.	4 440 400	405.057
	Armstrong World	1,000,010	155,704		Inc.	1,119,468	105,857
	Industries Inc.	1,346,029	156,301		GATX Corp.	1,012,052	105,446
	Curtiss-Wright Corp.	1,115,484	154,684		SPX FLOW Inc.	1,193,931	103,251
	Watts Water	1,115,404	134,004		EVERTEC Inc.	2,045,444	102,231
	Technologies Inc.				Aerojet Rocketdyne		
	Class A	783,571	152,146		Holdings Inc.	2,174,785	101,693
	Valmont	700,071	102,140	*	Kirby Corp.	1,709,818	101,597
	Industries Inc.	602,801	151,002		Silgan Holdings Inc.	2,359,857	101,096
	ManpowerGroup Inc.			*	Fluor Corp.	4,020,547	99,589
*	FTI Consulting Inc.	973,915	150,054		Comfort Systems		
	•		149,418		USA Inc.	972,820	96,251
*	Vontier Corp.	4,796,466	147,395		Hillenbrand Inc.	1,847,907	96,073
	MasTec Inc.	1,583,614	146,136		Altra Industrial		
-	Atkore Inc.	1,307,300	145,359		Motion Corp.	1,846,144	95,206
	Crane Co.	1,420,756	144,533				

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
	AAON Inc.	1,193,157	94,772	*	Kratos Defense &		
	Installed Building	1,100,107	0.,,,2		Security		
	Products Inc.	675,765	94,418		Solutions Inc.	3,507,712	68,050
	EnerSys	1,190,958	94,157		Moog Inc. Class A	832,398	67,399
	Forward Air Corp.	768,860	93,101	*	JELD-WEN		
	Brink's Co.	1,397,864	91,658		Holding Inc.	2,477,693	65,312
	HEICO Corp.	633,416	91,351	*	Verra Mobility Corp.		
*	Beacon Roofing				Class A	4,199,950	64,805
	Supply Inc.	1,591,119	91,251		Mueller Water		
	UniFirst Corp.	433,130	91,131		Products Inc.	4 400 000	64.640
	Alliance Data				Class A	4,489,020	64,642
	Systems Corp.	1,343,728	89,452		EnPro Industries Inc.	586,811	64,590
*	Mercury				Barnes Group Inc.	1,368,706	63,768
	Systems Inc.	1,616,053	88,980		ESCO Technologies Inc.	704,375	63,387
	Badger Meter Inc.	831,418	88,596	*	Gibraltar	704,375	03,367
*	Itron Inc.	1,291,896	88,521		Industries Inc.	929,576	61,984
	Helios	007.40.4	07000	*	Allegheny	020,070	01,001
	Technologies Inc.	827,484	87,026		Technologies Inc.	3,622,393	57,705
_	Welbilt Inc.	3,653,877	86,853		Maxar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
	Kennametal Inc.	2,380,752	85,493		Technologies Inc.	1,947,074	57,497
_	Shift4 Payments Inc.	1 464 755	04.050		ManTech		
	Class A	1,464,755	84,853		International Corp.		
	Otter Tail Corp.	1,183,330	84,513		Class A	787,347	57,421
	Belden Inc.	1,282,663	84,309	*,1	Nikola Corp.	5,787,596	57,124
*	Terex Corp.	1,887,182	82,942		McGrath RentCorp	693,820	55,686
	Bloom Energy Corp. Class A	3,780,094	82,897	*	CBIZ Inc.	1,407,862	55,076
	ArcBest Corp.	691,108			CSW Industrials Inc.	448,893	54,253
	Albany International	091,100	82,829	*	Green Dot Corp.		
	Corp. Class A	921,488	81,506		Class A	1,486,868	53,884
*	Vicor Corp.	637,293	80,923	*	O-I Glass Inc.	4,462,566	53,685
*	Masonite	007,200	00,020	*	MYR Group Inc.	475,848	52,605
	International Corp.	673,178	79,401		ICF International Inc.	507,074	52,000
*,1	CryoPort Inc.	1,331,274	78,771		Patrick Industries Inc.	644,176	51,979
	Encore Wire Corp.	548,722	78,522	*	NV5 Global Inc.	371,608	51,326
	ABM Industries Inc.	1,913,248	78,156	*	Ferro Corp.	2,346,254	51,219
*	Atlas Air Worldwide	1,010,210	70,100		Greif Inc. Class A	847,057	51,137
	Holdings Inc.	824,636	77,615		Granite		
*	Hub Group Inc.	,	, -		Construction Inc.	1,309,969	50,696
	Class A	917,291	77,273	*	Montrose		
	Werner				Environmental	710 001	50,219
	Enterprises Inc.	1,616,460	77,040		Group Inc. Alamo Group Inc.	712,221	,
*	Dycom			*	Air Transport Services	338,785	49,862
	Industries Inc.	815,331	76,445		Group Inc.	1,693,948	49,768
	Kadant Inc.	329,785	76,009	*	Meritor Inc.	1,991,598	49,352
*	Alight Inc. Class A	6,977,271	75,424	*	Veritiv Corp.	395,863	48,521
	Federal Signal Corp.	1,737,930	75,322		TTEC Holdings Inc.	533,420	48,301
*,1	Virgin Galactic				Lindsay Corp.	313,571	47,663
	Holdings Inc.	5,502,184	73,619		Shyft Group Inc.	951,243	46,735
*	SPX Corp.	1,227,593	73,263	*	Gates Industrial Corp.	331,243	40,733
	Trinity Industries Inc.	2,355,972	71,150		plc	2,915,593	46,387
	Brady Corp. Class A	1,305,161	70,348		Mesa	2,010,000	10,007
*	GMS Inc.	1,165,355	70,049		Laboratories Inc.	141,153	46,311
*,1	Flywire Corp.	1,822,415	69,361	*	Ranpak Holdings	, 100	.0,011
*	Hayward	0.007.000	00.171		Corp. Class A	1,231,219	46,269
	Holdings Inc.	2,637,080	69,171		TriMas Corp.	1,220,883	45,173
					'		,

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	OSI Systems Inc.	484,350	45,141		Marten Transport Ltd.	1,653,269	28,370
*	Aspen Aerogels Inc.	889,629	44,295	*	Cross Country		
	Astec Industries Inc.	613,540	42,500		Healthcare Inc.	1,020,354	28,325
*	AeroVironment Inc.	671,416	41,648	*	TrueBlue Inc.	1,020,212	28,229
*	TaskUS Inc. Class A	769,449	41,519	*	Great Lakes Dredge		
	Kforce Inc.	549,992	41,370		& Dock Corp.	1,766,202	27,765
	Griffon Corp.	1,448,198	41,245	*	Core & Main Inc.		
	Tennant Co.	501,408	40,634		Class A	910,395	27,621
	Greenbrier Cos. Inc.	884,322	40,582	*	Construction		
*	Repay Holdings Corp.	, ,	,,,,,		Partners Inc.		
	Class A	2,189,112	39,995		Class A	938,190	27,592
*	Proto Labs Inc.	778,596	39,981		Gorman-Rupp Co.	595,244	26,518
	Schneider	,		*	BlueLinx		
	National Inc.				Holdings Inc.	275,921	26,422
	Class B	1,479,472	39,813		Wabash National	4 007 400	00.407
*	ZipRecruiter Inc.				Corp.	1,337,469	26,107
	Class A	1,596,231	39,810		First Advantage Corp.	1,298,271	24,719
	H&E Equipment				Heidrick & Struggles	557440	04.004
	Services Inc.	876,394	38,798		International Inc.	557,140	24,364
	Deluxe Corp.	1,206,852	38,752		Douglas	600 401	24.252
	Standex International			*	Dynamics Inc.	623,481	24,353
	Corp.	348,265	38,539	*,1	Conduent Inc.	4,498,577	24,022
*	Donnelley Financial			-, 1	Mirion	2 262 704	22 701
	Solutions Inc.	792,249	37,347		Technologies Inc. Quanex Building	2,263,704	23,701
*	AAR Corp.	955,752	37,303		Products Corp.	948,578	23,506
	AZZ Inc.	673,058	37,213		Heartland	340,376	23,500
*	PGT Innovations Inc.	1,629,381	36,645		Express Inc.	1,344,573	22,616
	ADT Inc.	4,329,244	36,409	*	GreenSky Inc.	1,044,070	22,010
*	FARO				Class A	1,985,027	22,550
	Technologies Inc.	516,703	36,180	*	RR Donnelley & Sons	1,000,027	22,000
	Columbus McKinnon				Co.	2,001,431	22,536
	Corp.	768,497	35,551	*	BTRS Holdings Inc.	2,00.,.0.	22,000
	Primoris Services				Class A	2,849,883	22,286
	Corp.	1,465,637	35,146	*,1	PureCycle	_,_,_,_,	,
	Enerpac Tool Group	. 70. 100	05.407		Technologies Inc.	2,309,138	22,098
	Corp. Class A	1,731,136	35,107	*,1	Hyliion Holdings		
*	Evo Payments Inc.		0.4.500		Corp.	3,471,104	21,521
	Class A	1,347,771	34,503		Chase Corp.	215,986	21,504
	Kaman Corp.	792,645	34,203	*,1	Latch Inc.	2,830,909	21,430
*,1	Marqeta Inc. Class A	1,981,835	34,028		Insteel Industries Inc.	533,587	21,242
*	CoreCivic Inc.	3,381,659	33,715	*	BrightView		
	Apogee	007400	00.007		Holdings Inc.	1,505,101	21,192
	Enterprises Inc.	687,169	33,087	*	Napco Security		
	Triumph Group Inc.	1,763,023	32,669		Technologies Inc.	422,379	21,110
*	Cimpress plc	445,288	31,887		Myers Industries Inc.	1,048,842	20,987
	Pitney Bowes Inc.	4,718,356	31,283	*,1	Danimer		
*	Cornerstone Building				Scientific Inc.	2,434,321	20,740
	Brands Inc.	1,793,393	31,277	*	Sterling Construction		
*	Energy Recovery Inc.	1,452,044	31,204		Co. Inc.	778,196	20,467
*	Huron Consulting	000 701	04.077	*	Forterra Inc.	837,310	19,911
	Group Inc.	622,781	31,077	*	Titan Machinery Inc.	579,374	19,519
*,1	Aurora	0.700.000	00.044	*	Forrester		
	Innovation Inc.	2,739,033	30,841		Research Inc.	324,971	19,086
*	American Woodmark	467440	20.470		International		
*,1	Corp.	467,449	30,478		Seaways Inc.	1,285,706	18,874
, 1	Desktop Metal Inc. Class A	6 1// 106	20 /1/		CRA		
	Class A	6,144,196	30,414		International Inc.	202,089	18,867

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Transcat Inc.	203,630	18,822	*,1	AvidXchange		
*	SP Plus Corp. Advantage	662,015	18,682		Holdings Inc. Allied Motion	857,701	12,917
	Solutions Inc.	2,238,939	17,956		Technologies Inc.	350,082	12,774
	VSE Corp.	291,711	17,777		Pactiv Evergreen Inc.	995,789	12,627
*	Manitowoc Co. Inc.	940,165	17,777	*,1	Joby Aviation Inc.	1,719,513	12,552
*,1	Workhorse	340,103	17,470	*	Vishay Precision	1,710,010	12,002
, .	Group Inc.	3,993,175	17,410		Group Inc.	335,165	12,441
*	Yellow Corp.	1,367,052	17,211		National Presto	,	,
*	Loyalty Ventures Inc.	563,787	16,953		Industries Inc.	150,334	12,332
*	PAE Inc.	1,706,035	16,941	*	DXP Enterprises Inc.	478,217	12,276
*	Enovix Corp.	619,211	16,892	*	Atlanticus Holdings	-,	,
*,1	Custom Truck One	015,211	10,032		Corp.	171,756	12,250
, .	Source Inc.	2,101,525	16,812	1	Eagle Bulk		
	Argan Inc.	426,094	16,486		Shipping Inc.	262,857	11,960
	Kelly Services Inc.	720,007	10,400	*	IES Holdings Inc.	235,697	11,936
	Class A	976,875	16,382	*	Willdan Group Inc.	335,760	11,819
*	Thermon Group	070,070	10,002		Hyster-Yale Materials		
	Holdings Inc.	953,664	16,146		Handling Inc.	286,209	11,763
	Resources	,	,	*	Vivint Smart		
	Connection Inc.	902,634	16,103		Home Inc.	1,177,444	11,515
*,1	Skillsoft Corp.	1,716,308	15,704		Information Services		
*	Titan				Group Inc.	1,442,453	10,991
	International Inc.	1,428,714	15,659	*	PFSweb Inc.	840,934	10,831
*	Franklin Covey Co.	337,690	15,655	*	HireRight Holdings		
*	CIRCOR				Corp.	676,654	10,826
	International Inc.	567,028	15,412	*,1	View Inc.	2,746,998	10,741
	Ennis Inc.	752,051	14,688		Kronos	000 100	0.050
	Cass Information				Worldwide Inc.	663,432	9,958
	Systems Inc.	373,170	14,673		Radiant Logistics Inc.	1,348,881	9,833
*	Cantaloupe Inc.	1,644,546	14,604		Luna Innovations Inc.	1,117,437	9,431
*,1	Blade Air			*	ShotSpotter Inc.	314,458	9,283
	Mobility Inc.	1,651,127	14,579		Perella Weinberg	000 001	0.070
*,1	CS Disco Inc.	406,883	14,546	*,1	Partners Class A	689,931	8,872
*	Ducommun Inc.	309,233	14,463	, 1	Eos Energy Enterprises Inc.	1,146,168	8,619
*	Hillman Solutions	4 000 504	44.000	*,1	Sarcos Technology &	1,140,100	0,019
	Corp.	1,336,584	14,368	, .	Robotics Corp.	827,715	8,261
	Vectrus Inc.	313,424	14,345	*,1	Proterra Inc.	934,011	8,247
	Barrett Business	207000	14.000	*	13 Verticals Inc.	001,011	0,217
*	Services Inc.	207,068	14,300		Class A	360,183	8,209
*	Paya Holdings Inc. Modine	2,249,605	14,262	*	Sterling Check Corp.	398,023	8,163
	Manufacturing Co.	1,406,735	14,194	*,1	Velo3D Inc.	1,042,297	8,140
*	Payoneer Global Inc.	1,400,733	14,134	*	Archer Aviation Inc.	.,,	-,
*	International Money	1,927,970	14,171		Class A	1,344,181	8,119
	Express Inc.	884,570	14,118	*	Astronics Corp.	651,406	7,817
	Miller Industries Inc.	422,123	14,099	*	DHI Group Inc.	1,241,409	7,746
*	Tutor Perini Corp.	1,131,073	13,991	*	Covenant Logistics		
*,1	Paymentus	1,101,070	10,001		Group Inc. Class A	287,706	7,604
	Holdings Inc.			*,1	Infrastructure &		
	Class A	399,835	13,986		Energy		
*	Babcock & Wilcox	•			Alternatives Inc.	818,153	7,527
	Enterprises Inc.	1,474,680	13,302	*	Atlas Technical		
*	Daseke Inc.	1,310,814	13,161		Consultants Inc.	000 014	7440
*,1	Velodyne Lidar Inc.	2,822,003	13,094	* 1	Class A	880,011	7,410
	REV Group Inc.	921,448	13,038	*,1	Lightning eMotors Inc.	1 220 102	7222
	•				Powell Industries Inc.	1,220,193	7,333
					rowell industries inc.	248,614	7,332

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Park Aerospace Corp.	544,146	7,183	*,1	BlackSky		
*	Blue Bird Corp.	456,096	7,103	,.	Technology Inc.	826,929	3,713
*	· ·		,	*	Quad/Graphics Inc.	927,674	3,711
*,1	Lawson Products Inc.	,	7,089	*	Gencor	327,074	3,711
", I	Rekor Systems Inc.	1,063,950	6,969		Industries Inc.	320,529	3,696
-	Commercial Vehicle	050.000	0.050	*	Performant Financial	320,323	3,030
*	Group Inc.	850,080	6,852		Corp.	1,516,169	3,654
	Acacia Research	1 226 212	6.000	*,1	Xos Inc.	1,155,900	3,641
	Corp. United States Lime &	1,326,212	6,803	,.	Universal Logistics	1,100,000	3,041
	Minerals Inc.		6.700		Holdings Inc.	190,758	3,598
*,1		52,084	6,720	*	Twin Disc Inc.	326,824	3,582
	Ipsidy Inc.	440,934	6,186		ARC Document	320,024	3,362
	Concrete Pumping	707040	6.044		Solutions Inc.	1,010,004	3,535
*	Holdings Inc.	737,042	6,044	*	Berkshire Grey Inc.	635,053	3,493
*	AerSale Corp.	320,692	5,689	*	Overseas	033,033	3,433
	Huttig Building	E10.067	E 600		Shipholding		
*	Products Inc.	513,867	5,688		Group Inc. Class A	1,786,833	3,359
	PAM Transportation	70.000	E 667	*,1	Rocket Lab USA Inc.	272,041	3,341
*,1	Services Inc.	79,803	5,667	*,1	AEye Inc.		3,206
-,1	Byrna	410 E04	E 601	*,1	,	662,400 472.800	,
*	Technologies Inc.	419,584	5,601	*	Redwire Corp.	472,800	3,191
_	Horizon Global Corp.	689,607	5,503		Target Hospitality	077001	2 126
	CECO Environmental	0.40,000	E 0E0	*	Corp.	877,991	3,126
	Corp.	843,032	5,252		Orion Group Holdings Inc.	803,756	3,030
	Park-Ohio Holdings	220.000	E 077	*	Orion Energy	003,730	3,030
*	Corp.	239,809	5,077		Systems Inc.	832,365	3,013
	INNOVATE Corp.	1,371,804	5,076		Greif Inc. Class B	49,750	2,974
	Hurco Cos. Inc.	168,308	4,999	*	Mayville Engineering	43,730	2,374
,	LSI Industries Inc.	728,530	4,998		Co. Inc.	105 710	2.010
	Iteris Inc.	1,202,500	4,810	*,1		195,710	2,918
*,1	Electric Last Mile	075 745	4.750	*	Energous Corp.	2,204,696	2,756
	Solutions I	675,715	4,750	*	Hill International Inc.	1,410,112	2,750
*,1	Agrify Corp.	514,560	4,734	*	Karat Packaging Inc.	133,764	2,703
*,1	Enjoy Technology Inc.	1,024,765	4,734	*	Usio Inc.	615,890	2,685
*	USA Truck Inc.	230,660	4,586	*	ServiceSource	0.007550	0.004
*,1	BitNile Holdings Inc.	3,545,981	4,220	* 4	International Inc.	2,687,550	2,661
	Preformed Line			*,1	MICT Inc.	3,146,889	2,612
	Products Co.	64,220	4,155	*,1	Wrap	0.40 =00	0.500
*	EVI Industries Inc.	132,321	4,132	*	Technologies Inc.	643,539	2,529
*	DLH Holdings Corp.	198,282	4,108	*	Manitex	200 505	0.500
*	L B Foster Co.			* 4	International Inc.	396,585	2,522
	Class A	298,585	4,106	*,1	AgEagle Aerial	1 557000	0.440
*,1	Biotricity Inc.	1,017,800	4,051		Systems Inc.	1,557,699	2,446
	BGSF Inc.	281,551	4,040	*	CPI Card Group Inc.	129,785	2,407
*	Smith-Midland Corp.	84,441	3,969	*	Willis Lease Finance	00.000	0.070
*	Bowman Consulting			* 4	Corp.	62,993	2,372
	Group Ltd.	186,636	3,965	*,1	IZEA Worldwide Inc.	1,752,080	2,348
*	US Xpress			*,1	Katapult	000 040	0.047
	Enterprises Inc.				Holdings Inc.	696,343	2,347
	Class A	673,748	3,955	Ĵ	Soluna Holdings Inc.	214,527	2,308
*	Hudson			*	Frequency	000 470	0.050
	Technologies Inc.	885,055	3,930		Electronics Inc.	228,179	2,250
*	Mistras Group Inc.	526,942	3,915	*	Priority Technology	040 750	0.010
*,1	Orbital Energy			_	Holdings Inc.	316,750	2,243
	Group Inc.	1,787,249	3,914	*	Limbach	000 447	0.071
	HireQuest Inc.	187,428	3,779		Holdings Inc.	230,117	2,071
1	Cadre Holdings Inc.	146,800	3,732	*	RF Industries Ltd.	249,088	1,993
	Graham Corp.	298,776	3,717	*,1	Alpha Pro Tech Ltd.	331,541	1,979
	•						

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	Innovative Solutions			*	ClearSign		
	& Support Inc.	297,872	1,954		Technologies Corp.	588,394	812
*,1	Spire Global Inc.	576,233	1,948	1	Pioneer Power		
*	Ultralife Corp.	320,851	1,938		Solutions Inc.	107,157	804
*,1	Momentus Inc.	458,805	1,918	*	Wireless Telecom		
*	Hudson Global Inc.	66,317	1,911		Group Inc.	339,257	746
*	VirTra Inc.	262,879	1,840	*,1	TOMI Environmental		
*	StarTek Inc.	351,627	1,835		Solutions Inc.	447,022	738
*	Core Molding	•	,	*,1	Applied DNA		
	Technologies Inc.	209,461	1,783		Sciences Inc.	178,430	717
*	GEE Group Inc.	3,039,188	1,732	*,1	Fuel Tech Inc.	509,027	713
*	Lightbridge Corp.	247,133	1,637	*	Air Industries Group	747,738	678
*	RCM	,	.,	*	Ballantyne		
	Technologies Inc.	227,673	1,621		Strong Inc.	226,990	656
*,1	Alkido Pharma Inc.	2,685,084	1,576	*	Sypris Solutions Inc.	260,226	640
*	Shapeways	2,000,00	1,070	*,1	ALJ Regional		
	Holdings Inc.	414,937	1,539		Holdings Inc.	336,903	613
*	LS Starrett Co.	,007	.,000	*,1	Polar Power Inc.	161,430	578
	Class A	164,541	1,538	*,1	Legalzoom.com Inc.	33,951	546
*,1	Coda Octopus	,	.,	*	AmpliTech Group Inc.	132,700	523
	Group Inc.	183,570	1,469		Espey Manufacturing		
*,1	LightPath	,	.,		& Electronics Corp.	36,520	519
	Technologies Inc.				Taitron		
	Class A	592,317	1,445		Components Inc.		
*	Williams Industrial				Class A	126,100	507
	Services Group Inc.	468,703	1,401		Autoscope		
*	Paysign Inc.	865,624	1,385		Technologies Corp.	79,282	497
*,1	Astra Space Inc.	195,910	1,358	*	Moneylion Inc.	100,558	405
*,1	Digital Ally Inc.	1,260,808	1,349	*,1	Markforged Holding		
*	Volt Information	,,	,		Corp.	65,000	349
	Sciences Inc.	458,889	1,335	*	Cemtrex Inc.	375,912	308
*,1	Odyssey Marine	,	,	*,1	Bio-key		
	Exploration Inc.	246,016	1,279		International Inc.	138,179	303
*,1	FreightCar			*,1	OLB Group Inc.	109,700	291
	America Inc.	345,280	1,274	*	Jewett-Cameron		
*	CPI				Trading Co. Ltd.	32,960	278
	Aerostructures Inc.	436,753	1,192	*,1	SG Blocks Inc.	122,327	230
*,1	GreenBox POS	281,786	1,183	*	Socket Mobile Inc.	53,500	218
*	Armstrong			*,1	Energy Focus Inc.	48,431	207
	Flooring Inc.	588,752	1,166	*,1	Microvast		
*	Sono-Tek Corp.	157,600	1,157		Holdings Inc.	32,339	183
*	Research			*	LGL Group Inc.	13,749	157
	Solutions Inc.	465,675	1,146	*,1	ShiftPixy Inc.	114,467	134
*	Toughbuilt			*	P&F Industries Inc.		
	Industries Inc.	3,109,404	1,135		Class A	19,462	119
*,1	Evolv Technologies			*	Servotronics Inc.	8,333	106
	Holdings Inc.	250,371	1,117	*,1	Staffing 360		
	Where Food Comes				Solutions Inc.	89,436	82
	From Inc.	65,820	942	*	Remitly Global Inc.	3,469	72
*	Team Inc.	847,688	924	*	Schmitt		
*	DSS Inc.	1,373,943	923		Industries Inc.	5,581	31
*	IHS Holding Ltd.	62,141	876	*	LGL Group Inc.		
*	Broadwind Inc.	453,583	853		Warrants Exp.		
*	Astrotech Corp.	1,252,495	852		12/16/25	2,391	2
*,1	ENGlobal Corp.	639,421	844		Ardagh Group SA		
*	Air T Inc.	32,860	826		Class A	37	1
	-	- ,					

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Electro-Sensors Inc.	107	1	*	Jones Lang		
*,2	Patriot National Inc.	129,819_			LaSalle Inc. Regency Centers	1,434,325	386,321
			175,828,999		Corp.	4,865,824	366,640
Real	Estate (3.7%)				Life Storage Inc.	2,331,152	357,086
	American Tower	40.040.005	0.705.704	*	Host Hotels &	, , -	,
	Corp.	12,942,885	3,785,794		Resorts Inc.	20,297,189	352,968
1	Prologis Inc.	21,022,435	3,539,337		CubeSmart	6,166,887	350,958
'	Crown Castle International Corp.	12,282,528	2,563,855		Rexford Industrial		
	Equinix Inc.	2,559,026	2,164,527		Realty Inc.	4,303,238	349,036
	Public Storage	4,235,630	1,586,498		American Homes 4	7505 500	000 004
	Simon Property	4,200,000	1,000,400		Rent Class A	7,585,506	330,804
	Group Inc.	9,339,458	1,492,165		CyrusOne Inc.	3,607,110	323,630
	Digital Realty				Gaming & Leisure Properties Inc.	6,430,945	312,930
	Trust Inc.	8,065,235	1,426,498		Federal Realty	0,430,345	312,930
	SBA				Investment Trust	2,210,773	301,373
	Communications				Lamar Advertising	2,210,770	001,070
	Corp.	3,091,181	1,202,531		Co. Class A	2,467,307	299,284
	Realty Income Corp.	16,077,913	1,151,018		EastGroup		
	Welltower Inc.	12,371,004	1,061,061		Properties Inc.	1,157,273	263,685
	AvalonBay	2.070.004	1 000 001		Americold Realty		
	Communities Inc.	3,970,984	1,003,031		Trust	7,581,846	248,609
	Alexandria Real Estate Equities Inc.	4,402,477	981,576		First Industrial Realty		
*	CBRE Group Inc.	4,402,477	301,370		Trust Inc.	3,699,771	244,925
	Class A	9,035,282	980,418		Apartment Income	4 457047	242 710
	Equity Residential	10,124,739	916,289		REIT Corp. National Retail	4,457,847	243,710
*	CoStar Group Inc.	11,224,266	887,054		Properties Inc.	4,988,762	239,810
	Weyerhaeuser Co.	21,285,089	876,520		STORE Capital Corp.	6,970,840	239,797
	Extra Space	,,			STAG Industrial Inc.	4,971,865	238,451
	Storage Inc.	3,805,213	862,756		American Campus	1,071,000	200, 101
	Invitation Homes Inc.	16,955,214	768,749		Communities Inc.	3,960,511	226,898
	Mid-America				Kilroy Realty Corp.	3,308,953	219,913
	Apartment				Vornado Realty Trust	5,177,391	216,726
	Communities Inc.	3,272,444	750,830		Brixmor Property		,
	Sun	0.004.004	710 000		Group Inc.	8,444,901	214,585
	Communities Inc.	3,394,894	712,826		Healthcare Trust of		
	Duke Realty Corp. Essex Property	10,819,591	710,198		America Inc.		
	Trust Inc.	1,850,203	651,697		Class A	6,279,092	209,659
	Ventas Inc.	11,345,465	579,980		Omega Healthcare	6 707 400	200.040
	Healthpeak	11,010,100	070,000	*	Investors Inc.	6,787,423	200,840
	Properties Inc.	15,317,219	552,798		Zillow Group Inc. Class C	3,087,747	197,153
	VICI Properties Inc.	17,870,734	538,088	*,1	Opendoor	3,007,747	137,133
	UDR Inc.	8,785,871	527,064		Technologies Inc.	13,059,513	190.799
	Camden Property			*	Zillow Group Inc.	.,	,
	Trust	2,904,470	518,971		Class A	2,961,288	184,251
	Boston				Terreno Realty Corp.	2,128,095	181,505
	Properties Inc.	3,995,277	460,176		Innovative Industrial		
	WP Carey Inc.	5,291,271	434,149		Properties Inc.	679,968	178,770
	Kimco Realty Corp.	17,521,186	431,897		Cousins		
	Iron Mountain Inc.	8,228,225	430,583		Properties Inc.	4,223,411	170,119
	Equity LifeStyle	4 700 404	410.010		Spirit Realty	3 503 004	160 000
	Properties Inc.	4,700,121	412,013		Capital Inc.	3,502,804	168,800
	Medical Properties Trust Inc.	16,943,853	400,383		Rayonier Inc. Douglas Emmett Inc.	4,072,394 4,738,771	164,362
	nuot mo.	10,040,000	+00,000		Douglas Ellimett IIIC.	4,/30,//1	158,749

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	National Storage				Kennedy-Wilson		
	Affiliates Trust	2,283,436	158,014		Holdings Inc.	3,361,218	80,266
	Agree Realty Corp.	1,982,012	141,436		Independence Realty		
*	Ryman Hospitality				Trust Inc.	2,992,647	77,300
	Properties Inc.	1,487,583	136,798	*	Sunstone Hotel		
	SL Green Realty	4 007070	100.070		Investors Inc.	6,272,320	73,574
	Corp.	1,897,879	136,078		National Health	1 222 500	70.900
	Kite Realty Group Trust	6,231,734	135,727		Investors Inc.	1,233,509	70,890
	Healthcare Realty	0,231,734	133,727		RLJ Lodging Trust	4,725,855	65,831
	Trust Inc.	4,194,495	132,714		Brandywine Realty Trust	4,875,048	65,423
	Highwoods	4,104,400	102,714		Piedmont Office	4,070,040	00,420
	Properties Inc.	2,967,406	132,317		Realty Trust Inc.		
	Hannon Armstrong	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		Class A	3,536,088	64,993
	Sustainable				Retail Opportunity		
	Infrastructure				Investments Corp.	3,285,719	64,400
	Capital Inc.	2,407,407	127,881		Four Corners		
	LXP Industrial Trust	8,039,038	125,570		Property Trust Inc.	2,185,285	64,269
*	DigitalBridge				eXp World		
	Group Inc.	14,601,917	121,634		Holdings Inc.	1,887,048	63,575
	Park Hotels &	0.000.100	100 700	*,1	Compass Inc.	0.000.401	60.005
*	Resorts Inc.	6,393,192	120,703		Class A	6,933,491	63,025
	Howard Hughes Corp.	1,175,042	119,596		CareTrust REIT Inc.	2,748,091	62,739
	Physicians Realty	1,175,042	113,330		Washington REIT Urban Edge	2,406,862	62,217
	Trust	6,245,522	117,603		Properties	3,170,419	60,238
	Outfront Media Inc.	4,142,180	111,093	*	Xenia Hotels &	3,170,413	00,230
*	Redfin Corp.	2,848,563	109,356		Resorts Inc.	3,253,929	58,929
	PotlatchDeltic Corp.	1,811,668	109,099	*	DiamondRock	0,200,020	,
	Broadstone Net	, . ,	,		Hospitality Co.	6,002,990	57,689
	Lease Inc.	4,360,519	108,228		Easterly Government		
	PS Business				Properties Inc.		
	Parks Inc.	586,078	107,938		Class A	2,445,461	56,050
	Hudson Pacific			*	Realogy Holdings	0.040.005	FF 7F4
	Properties Inc.	4,333,699	107,086		Corp.	3,316,695	55,754
	EPR Properties	2,125,420	100,936		Monmouth Real Estate Investment		
	JBG SMITH	2 506 225	100.664		Corp.	2,651,459	55,707
	Properties Essential Properties	3,506,235	100,664		Acadia Realty Trust	2,526,011	55,143
	Realty Trust Inc.	3,455,515	99,622		NexPoint Residential	2,020,011	00,
	Macerich Co.	5,755,710	99,459		Trust Inc.	650,732	54,551
	Apple Hospitality	0,700,710	00, 100	1	Tanger Factory Outlet		
	REIT Inc.	6,146,670	99,269		Centers Inc.	2,807,251	54,124
	Uniti Group Inc.	6,708,596	93,987		American Assets		
*	Cushman &				Trust Inc.	1,378,443	51,733
	Wakefield plc	4,128,840	91,825	1	InvenTrust Properties	4.045.054	40.407
	Newmark Group Inc.				Corp.	1,815,354	49,487
	Class A	4,887,393	91,394		Alexander & Baldwin Inc.	1 060 456	49,263
	Corporate Office					1,963,456	
	Properties Trust	3,195,388	89,375		St. Joe Co. Industrial Logistics	919,548	47,862
	Sabra Health Care	0.505.005	00.000		Properties Trust	1,857,153	46,522
*	REIT Inc.	6,505,325	88,082		Safehold Inc.	563,820	45,021
	Equity Commonwealth	3,276,634	84,865		Global Net Lease Inc.		44,978
	Pebblebrook Hotel	0,270,004	0-,000		Centerspace	404,611	44,871
	Trust	3,739,527	83,653		Paramount	,	. 1,0,1
	SITE Centers Corp.	5,136,302	81,308		Group Inc.	5,294,861	44,159
	2.12 GGGIG GGIP.	3,.33,002	0.,000				,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Empire State Realty Trust Inc. Class A	4,907,755	43,679		Franklin Street Properties Corp.	2,758,628	16,414
*	Service Properties Trust Veris Residential Inc.	4,694,523 2,204,564	41,265 40,520		Urstadt Biddle Properties Inc. Class A	769,274	16,386
*	LTC Properties Inc. Marcus &	1,110,407	37,909		RE/MAX Holdings Inc.		
	Millichap Inc. Getty Realty Corp.	731,340 1,094,835	37,635 35,133		Class A One Liberty Properties Inc.	518,668 445,242	15,814 15,708
	Office Properties Income Trust	1,383,251	34,360		Phillips Edison & Co.	473,656	15,650
	UMH Properties Inc. RPT Realty Community	1,247,888 2,411,202	34,105 32,262		RMR Group Inc. Class A	442,978	15,362
	Healthcare Trust Inc. American Finance	675,203	31,917		Alexander's Inc. Whitestone REIT	58,505 1,339,431	15,229 13,568
*	Trust Inc. Class A Apartment Investment &	3,482,994	31,800	*	Bridge Investment Group Holdings Inc. Class A	536,905	13,407
	Management Co. Class A Gladstone Land Corp.	4,073,623 924,200	31,448 31,201	*	Farmland Partners Inc. Tejon Ranch Co.	1,088,998 633,019	13,014 12,078
	Global Medical REIT Inc.	1,734,543	30,788		CatchMark Timber Trust Inc. Class A	1,357,461	11,823
*	Plymouth Industrial REIT Inc. Orion Office	938,524	30,033	*	Seritage Growth Properties Class A Forestar Group Inc.	871,418 506,605	11,564 11,019
*	REIT Inc. Summit Hotel	1,538,897	28,731		CTO Realty Growth Inc.	164,401	10,098
*	Properties Inc. Radius Global	2,881,364	28,122	*	Postal Realty Trust Inc. Class A	503,103	9,961
	Infrastructure Inc. Gladstone Commercial Corp.	1,738,443	27,989 27,676	*	Hersha Hospitality Trust Class A Ashford Hospitality	1,071,995	9,830
	Armada Hoffler Properties Inc.	1,754,632	26,705	*	Trust Inc. FRP Holdings Inc.	963,193 155,398	9,247 8,982
	Preferred Apartment Communities Inc.	1,430,856	25,841	*,1	Braemar Hotels & Resorts Inc.	1,751,422	8,932
	GEO Group Inc. City Office REIT Inc.	3,291,250 1,177,279	25,507 23,216	*,1	Offerpad Solutions Inc. Indus Realty	1,271,837	8,140
*	NETSTREIT Corp. Douglas Elliman Inc. Diversified	995,124 1,860,390	22,788 21,394	*	Trust Inc. Stratus	96,347	7,810
	Healthcare Trust Universal Health	6,890,667	21,292		Properties Inc. BRT Apartments	206,151	7,539
	Realty Income Trust Bluerock Residential	354,893	21,105		Corp. Cedar Realty	311,104	7,463
	Growth REIT Inc. Class A	746,308	19,695	*	Trust Inc. Power REIT Alpine Income	285,758 84,433	7,175 5,817
	Saul Centers Inc. Ares Commercial Real Estate Corp.	366,855	19,451 18,779	*	Property Trust Inc. Vidler Water	274,615	5,503
*	Chatham Lodging Trust	1,291,539	18,437	*	Resouces Inc. Fathom Holdings Inc.	444,916 206,487	5,375 4,225
*,1	CBL & Associates Properties Inc.	567,300	17,700		New York City REIT Inc. Class A	380,218	4,034
*	CorePoint Lodging Inc.	1,090,453	17,120		Clipper Realty Inc. Retail Value Inc.	405,295 594,080	4,029 3,814

		Shares	Market Value• (\$000)			Shares	Market Value* (\$000)
-	Urstadt Biddle			*	ServiceNow Inc.	5,655,685	3,671,162
	Properties Inc. CIM Commercial	179,571	3,441		International Business Machines	3,000,000	0,071,102
*	Trust Corp. Rafael Holdings Inc.	391,836	2,880		Corp. Micron	25,486,833	3,406,570
	Class B	531,859	2,712		Technology Inc.	31,792,741	2,961,494
*	Maui Land &	105 150	1.044		Lam Research Corp.	4,001,637	2,877,777
	Pineapple Co. Inc. Global Self	185,158	1,844	*	Analog Devices Inc. Snowflake Inc.	15,273,478	2,684,619
	Storage Inc.	319,661	1,819		Class A	7,696,609	2,607,226
*	Pennsylvania REIT	1,593,485	1,625		Marvell		
*	Altisource Portfolio				Technology Inc.	23,408,563	2,048,015
	Solutions SA	144,667	1,623		KLA Corp.	4,309,336	1,853,488
*	Trinity Place	750 750	4.007	*	Autodesk Inc.	6,248,264	1,756,949
	Holdings Inc.	753,758	1,387	*	Snap Inc. Class A	34,672,068	1,630,627
	CorEnergy Infrastructure			*	Synopsys Inc.	4,335,159	1,597,506
	Trust Inc.	403,190	1,262	*	Workday Inc. Class A		1,498,375
*	AMREP Corp.	73,876	1,123		TE Connectivity Ltd.	9,273,074	1,496,118
*,1	WeWork Inc.	120,274	1,034		Xilinx Inc.	7,045,984	1,493,960
*	Comstock Holding	120,271	1,001		Amphenol Corp.	40.005.704	
	Cos. Inc. Class A	164,051	799	*	Class A	16,995,701	1,486,444
*,2	Spirit MTA REIT	2,854,330	764		Palo Alto Networks Inc.	2 662 071	1 402 102
*	Sotherly Hotels Inc.		706		Roper	2,663,971	1,483,192
*,1	Harbor Custom	, , , , , , , , , , , , , , , , , , , ,			Technologies Inc.	2,998,206	1,474,698
	Development Inc.	238,273	627	*	Cadence Design	2,550,200	1,474,000
	Presidio Property				Systems Inc.	7,876,559	1,467,797
	Trust Inc. Class A	110,319	430	*	Fortinet Inc.	3,950,027	1,419,640
*	Avalon GloboCare				Microchip	-,,-	, -,-
	Corp.	503,819	413		Technology Inc.	15,769,912	1,372,929
*	Alset EHome	400 510	071		Cognizant Technology	•	
*	International Inc.	486,512	271		Solutions Corp.		
*,2	Wheeler REIT Inc.	130,830	254		Class A	14,926,545	1,324,283
,2	New York REIT Liquidating LLC	19,100	220	*	Twilio Inc. Class A	4,787,524	1,260,747
*	JW Mays Inc.	2,922	119	*	Datadog Inc. Class A	6,944,261	1,236,842
	JVV IVIAYS IIIC.	2,322_			HP Inc.	32,755,850	1,233,913
			50,354,335	*	Crowdstrike		
Tech	nology (28.9%)				Holdings Inc. Class A	5,557,806	1,137,961
	Apple Inc.	442,969,284	78,658,056	*	Zoom Video	3,337,000	1,137,301
	Microsoft Corp.	213,382,662	71,764,857		Communications		
_	Alphabet Inc. Class		24,762,374		Inc. Class A	5,852,097	1,076,259
	Meta Platforms Inc. Class A		22 620 105	*	EPAM Systems Inc.	1,531,523	1,023,747
*	Alphabet Inc. Class	67,251,688	22,620,105	*	Match Group Inc.	7,643,647	1,010,872
	NVIDIA Corp.	C 7,677,584 67,499,669	22,215,780 19,852,328	*	ANSYS Inc.	2,479,931	994,750
*	Adobe Inc.	13,522,501	7,668,069	*	MongoDB Inc.	1,786,875	945,882
	Broadcom Inc.	11,113,202	7,000,009	*	Okta Inc.	4,195,433	940,490
*	salesforce.com Inc.			*	Twitter Inc.	21,590,638	933,147
	Intel Corp.	26,432,252 115,586,332	6,717,228 5,952,696	*	Cloudflare Inc.		
	QUALCOMM Inc.	31,831,280	5,952,696		Class A	7,005,804	921,263
	Intuit Inc.	8,047,618	5,020,960	*	Palantir		
	Texas	0,047,010	3,170,303		Technologies Inc.		
	Instruments Inc.	26,246,724	4,946,720		Class A	48,769,447	888,092
*	Advanced Micro	20,210,724	.,0 .0,,20	*	DoorDash Inc.	E 7EC 22E	057440
	Devices Inc.	34,321,894	4,938,921	*	Class A	5,756,335	857,118
	Oracle Corp.	46,616,042	4,065,385		HubSpot Inc.	1,275,840	840,970
	Applied Materials In		4,038,204				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	ON Semiconductor			*	Coupa Software Inc.	2,105,057	332,704
	Corp.	12,242,960	831,542	*	Synaptics Inc.	1,116,359	323,197
	Corning Inc.	21,827,049	812,621	*	UiPath Inc. Class A		317,097
*	DocuSign Inc.	5,311,482	808,992	*		7,352,133	
	CDW Corp.	3,856,784	789,792	*	Avalara Inc.	2,346,835	303,000
*					Lattice		
	Zscaler Inc.	2,388,420	767,471		Semiconductor Corp.	3,892,344	299,944
	Teradyne Inc.	4,632,698	757,585	*	,		
*	Gartner Inc. Skyworks	2,220,463	742,345	*	IAC/InterActiveCorp Aspen	2,264,692	296,018
	Solutions Inc.	4,700,423	729,224		Technology Inc.	1,903,861	289,768
*	Unity Software Inc.	4,877,423	697,423	*	Manhattan		
	VMware Inc. Class A	5,963,685	691,072		Associates Inc.	1,797,995	279,570
*	VeriSign Inc.	2,682,908	680,976		Bentley Systems Inc.		
	Seagate Technology	0.011.144	070 100	*	Class B Guidewire	5,777,221	279,213
*	Holdings plc Tyler	6,011,144	679,139		Software Inc.	2,367,673	268,802
	Technologies Inc.	1,165,104	626,768	*	Arrow Electronics Inc.	1,977,774	265,556
	Monolithic Power			*	Five9 Inc.		
	Systems Inc.	1,244,669	614,033	*		1,932,451	265,364
*	Paycom				Smartsheet Inc. Class A	3,401,769	262.467
	Software Inc.	1,450,113	602,072				263,467
*	AppLovin Corp.				Jabil Inc.	3,665,449	257,864
	Class A	6,283,957	592,326		Elastic NV	2,093,058	257,634
	Hewlett Packard			_	Pure Storage Inc.	7700 110	050.000
	Enterprise Co.	37,200,686	586,655		Class A	7,700,113	250,639
	NetApp Inc.	6,353,868	584,492	_	Silicon	1 1 40 450	005 000
*	Pinterest Inc. Class A	15,993,055	581,348		Laboratories Inc.	1,142,459	235,826
*	Western Digital Corp. Akamai	8,856,320	577,521	*	DXC Technology Co. Azenta Inc.	7,173,467 2,113,377	230,914 217,910
	Technologies Inc.	4,616,252	540,286		Vertiv Holdings Co.		
	Entegris Inc.	3,848,894	533,380		Class A	8,555,371	213,628
*	Splunk Inc.	4,591,778	531,361		Concentrix Corp.	1,191,927	212,902
	SS&C Technologies	4,331,770	331,301	*	II-VI Inc.	3,016,199	206,097
	Holdings Inc.	6,137,846	503,181	*	Dropbox Inc. Class A	8,366,807	205,321
*	Nuance	0,137,040	303,101	*	Ambarella Inc.	990,274	200,917
	Communications				Universal Display	330,274	200,517
	Inc.	9,073,706	501,957		Corp.	1,205,579	198,957
*	Qorvo Inc.	3,132,363	489,870	*	Nutanix Inc. Class A	6,008,251	
*		3,132,303	409,070				191,423
	Dell Technologies Inc. Class C	7050 000	441 422	*	KBR Inc.	3,987,325	189,876
*		7,858,880	441,433	_	Anaplan Inc.	3,947,444	180,990
	ZoomInfo Technologies Inc.			Ĵ	Rapid7 Inc.	1,527,907	179,819
	Class A	6,875,898	441,433	*	CACI International Inc.		
*	RingCentral Inc. Class A	2,333,967	437,269		Class A	662,615	178,383
*	F5 Inc.				Dolby		
		1,740,069	425,812		Laboratories Inc.	1 0 40 007	170.050
	NortonLifeLock Inc.	15,708,364	408,103		Class A	1,848,967	176,059
	Ceridian HCM	0.070.000	404.000		Novanta Inc.	963,242	169,848
*	Holding Inc.	3,870,980	404,363	*	IPG Photonics Corp.	984,734	169,512
*	GoDaddy Inc. Class A		400,804	*	New Relic Inc.	1,487,956	163,616
	Wolfspeed Inc.	3,302,134	369,080	*	Semtech Corp.	1,828,423	162,602
*	PTC Inc.	3,014,880	365,253	*	Asana Inc. Class A	2,163,723	161,306
*	Zendesk Inc.	3,436,075	358,348	*	Blackline Inc.	1,497,630	155,065
	Leidos Holdings Inc.	3,987,935	354,527		CMC Materials Inc.	808,168	154,918
*	Black Knight Inc.	4,193,470	347,597		Power		
*	Dynatrace Inc.	5,666,408	341,968		Integrations Inc.	1,633,035	151,693
	Citrix Systems Inc.	3,544,895	335,312	*	Digital Turbine Inc.	2,477,752	151,118

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	NCR Corp.	3,755,566	150,974	*,1	MicroStrategy Inc.		
*	Workiva Inc. Class A	1,155,251	150,749		Class A	177,758	96,787
*	Cirrus Logic Inc.	1,624,388	149,476		Switch Inc. Class A	3,266,161	93,543
*	Varonis Systems Inc.	3,051,304	148,843	*	Cargurus Inc. Class A	2,747,355	92,421
*	MaxLinear Inc.	3,031,304	140,040	*	Kyndryl Holdings Inc.	5,100,990	92,328
	Class A	1,963,507	148,029	*	Rambus Inc.	3,118,229	91,645
	National Instruments	1,000,007	110,020	*	nCino Inc.	1,650,260	90,533
	Corp.	3,369,834	147,161	*	LiveRamp	1,000,200	00,000
*	SPS Commerce Inc.	1,022,451	145,546		Holdings Inc.	1,839,033	88.182
*	Rogers Corp.	532,404	145,346	*	Sprout Social Inc.	1,000,000	00,102
*	Ziff Davis Inc.	1,301,465	144.280		Class A	971,971	88,148
*	Tenable Holdings Inc.	2,591,612	142,720	*	Verint Systems Inc.	1,668,135	87,594
*	Onto Innovation Inc.	1,405,241	142,253	*,1	E2open Parent	.,,	-,,
*	Change	1,400,241	1-2,200		Holdings Inc.	7,672,934	86,397
	Healthcare Inc.	6,632,838	141,810		Xerox Holdings Corp.	3,803,851	86,119
	CDK Global Inc.	3,363,412	140,389	*	CommVault	.,,	,
	TD SYNNEX Corp.	1,227,199	140,342		Systems Inc.	1,229,545	84,740
	Science Applications	1,227,100	140,042	*	Cerence Inc.	1,095,655	83,971
	International Corp.	1,635,873	136,743		Vishay		
*	Qualys Inc.	993,392	136,313		Intertechnology Inc.	3,769,844	82,446
*	Procore	,	,	*	Bumble Inc. Class A	2,378,024	80,520
	Technologies Inc.	1,687,511	134,950	*	Plexus Corp.	796,606	76,387
*	Diodes Inc.	1,217,003	133,639	*	Momentive		
	Pegasystems Inc.	1,162,778	130,022		Global Inc.	3,599,426	76,128
*	Sailpoint	, - ,			Shutterstock Inc.	674,364	74,773
	Technologies			*	3D Systems Corp.	3,449,500	74,302
	Holdings Inc.	2,646,343	127,924	*	Everbridge Inc.	1,096,784	73,846
*	Dun & Bradstreet			*	Appian Corp.	1,129,242	73,638
	Holdings Inc.	6,128,331	125,569	*	Sanmina Corp.	1,737,931	72,055
*	Fabrinet	1,052,409	124,679	*	Yelp Inc. Class A	1,974,474	71,555
*	DigitalOcean			*	Jamf Holding Corp.	1,860,208	70,706
	Holdings Inc.	1,551,387	124,623	*	TechTarget Inc.	736,966	70,498
*	Teradata Corp.	2,930,297	124,450	*	Ultra Clean		
*	Q2 Holdings Inc.	1,534,644	121,912		Holdings Inc.	1,211,602	69,497
*	Perficient Inc.	936,641	121,098		Amkor		
*	SiTime Corp.	409,073	119,670		Technology Inc.	2,777,609	68,857
*	Envestnet Inc.	1,472,656	116,841	*	Bottomline		
	Avnet Inc.	2,818,385	116,202		Technologies	4 040 000	00.040
*	Mandiant Corp.	6,480,941	113,676	*	DE Inc.	1,219,093	68,842
*	Upwork Inc.	3,280,922	112,076		Allegro MicroSystems Inc.	1,885,975	68,235
*	Alarm.com			*	Vimeo Inc.		
	Holdings Inc.	1,284,885	108,971	*		3,768,402	67,680 67,328
*	MACOM Technology				PagerDuty Inc. McAfee Corp.	1,937,511	07,320
	Solutions	1 205 406	100 477		Class A	2,597,373	66,986
	Holdings Inc.	1,385,406	108,477	*	Axcelis	2,007,070	00,300
*	Blackbaud Inc.	1,370,019	108,204		Technologies Inc.	898,409	66,985
*	Box Inc. Class A	4,093,796	107,217	*	NetScout	000,400	00,000
	Altair Engineering Inc.				Systems Inc.	2,006,252	66,367
	Class A	1,371,103	106,014	*	LivePerson Inc.	1,811,535	64,708
*	Insight	.,0,1,100	100,014	*,1	C3.ai Inc. Class A	2,007,747	62,742
	Enterprises Inc.	991,210	105,663	*	Magnite Inc.	3,577,896	62,613
*	Alteryx Inc. Class A	1,702,380	102,994	*	Duck Creek	2,21.7,000	-2,0.0
*	FormFactor Inc.	2,222,500	101,613		Technologies Inc.	2,057,005	61,936
*,1	Fastly Inc. Class A	2,839,431	100,658	*	Zuora Inc. Class A	3,281,732	61,303
	Advanced Energy	_,000,101	.55,555	*	Allscripts Healthcare		,
	Industries Inc.	1,070,738	97,501		Solutions Inc.	3,312,490	61,115
			,			*	•

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	Progress Software	4 0 44 500	F0 004	*	Vroom Inc.	3,111,294	33,571
*	Corp.	1,241,569	59,931	*	Yext Inc.	3,268,123	32,420
*	Appfolio Inc. Class A Covetrus Inc.	494,611	59,878 59,670	*	ACM Research Inc.	277026	22.150
	Xperi Holding Corp.	2,938,377 2,971,355	58,679 56,188	*	Class A Olo Inc. Class A	377,036 1,540,826	32,150 32,065
*	Qualtrics	2,971,355	50,166		CTS Corp.	869,853	31,941
	International Inc.			*	Photronics Inc.	1,651,619	31,133
	Class A	1,536,387	54,388	*	Avid Technology Inc.	955,731	31,128
*	Super Micro			*	Parsons Corp.	875,475	29,460
	Computer Inc.	1,235,645	54,307		A10 Networks Inc.	1,764,269	29,252
*	BigCommerce			*	Model N Inc.	973,334	29,229
	Holdings Inc.	1,528,086	54,048	*,1	Skillz Inc. Class A	3,856,288	28,691
*,1	SentinelOne Inc.	1 004 100	FO 701	*	PDF Solutions Inc.	901,002	28,643
*,1	Class A Confluent Inc.	1,064,182	53,731	*	Paycor HCM Inc.	986,913	28,433
, '	Class A	691,588	52,727	*	nLight Inc.	1,185,312	28,388
*	Amplitude Inc.	001,000	52,727	*	CEVA Inc.	624,044	26,984
	Class A	994,761	52,663	*,1	Gitlab Inc. Class A	304,454	26,487
*	DoubleVerify			*	Consensus Cloud		
	Holdings Inc.	1,575,840	52,444		Solutions Inc.	452,295	26,174
*	Schrodinger Inc.	1,495,382	52,084		Benchmark	044 105	25 506
	CSG Systems			*	Electronics Inc. KnowBe4 Inc.	944,125	25,586
	International Inc.	886,339	51,071		Class A	1,114,396	25,564
*	Cohu Inc.	1,317,518	50,184	*	ScanSource Inc.	724,735	25,424
	Methode	1 020 E02	EO 170	*	PubMatic Inc.	721,700	20,121
*	Electronics Inc. Impini Inc.	1,020,502 555,350	50,178 49,260		Class A	743,572	25,319
*	Ping Identity Holding	555,550	49,200	*,1	Aeva		
	Corp.	2,136,826	48,891		Technologies Inc.	3,343,540	25,277
*	SMART Global	2,.00,020	.0,00	*	Agilysys Inc.	560,666	24,927
	Holdings Inc.	658,208	46,726	*,1	MicroVision Inc.	4,720,001	23,647
*	Grid Dynamics			*	Thoughtworks		
	Holdings Inc.	1,205,205	45,762		Holding Inc.	865,989	23,217
*	Avaya Holdings Corp.	2,283,601	45,215		Squarespace Inc. Class A	774,097	22,836
*	TTM			*,1	Samsara Inc. Class A	795,400	22,359
	Technologies Inc.	2,795,604	41,654	, .	American	755,400	22,000
*	ePlus Inc.	767,238	41,339		Software Inc.		
	Veeco Instruments Inc.	1,435,035	40,855		Class A	850,686	22,262
*	JFrog Ltd.	1,369,047	40,661	*,1	Toast Inc. Class A	635,651	22,063
*,1	HashiCorp Inc.	1,303,047	40,001	*	NeoPhotonics Corp.	1,432,873	22,023
	Class A	434,900	39,593	*,1	Freshworks Inc.		
*	PROS Holdings Inc.	1,132,944	39,075		Class A	833,937	21,899
*	Bandwidth Inc.			*,1	Tucows Inc. Class A	259,269	21,732
	Class A	541,881	38,885		Ebix Inc.	702,350	21,351
*	Domo Inc. Class B	780,227	38,699	*,1	Matterport Inc.	1,033,676	21,335
*,1	PAR Technology				Mitek Systems Inc.	1,170,254	20,772
	Corp.	725,024	38,260	*	Simulations Plus Inc.	437,858	20,711
-	Eventbrite Inc.	2,168,432	27017	*	Telos Corp. Alkami	1,330,133	20,511
*	Class A Unisys Corp.	1,830,240	37,817 37,648		Technology Inc.	1,002,043	20,101
*	Ichor Holdings Ltd.	809,440	37,048	*	ChannelAdvisor Corp.	800,233	19,750
*	Sumo Logic Inc.	2,666,220	36,154	*	N-able Inc.	1,764,875	19,590
*	Informatica Inc.	2,000,220	55,154	*,1	CCC Intelligent	,,0,0	.0,000
	Class A	974,499	36,037		Solutions		
*	Alpha & Omega	,	-,		Holdings Inc.	1,715,395	19,538
	Semiconductor Ltd.	594,018	35,974	*	Diebold Nixdorf Inc.	2,101,000	19,014
*,1	Porch Group Inc.	2,227,645	34,729	*,1	Veritone Inc.	842,495	18,939

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	ON24 Inc.	1,081,630	18,766	*,1	Alpine 4		
*,1	Datto Holding Corp.	694,177	18,292	,	Holdings Inc.	4,269,734	8,198
*,1	Digimarc Corp.	451,405	17,821	*	Rimini Street Inc.	1,358,208	8,108
*,1	Ouster Inc.	3,414,031	17,753	*,1	SmartRent Inc.	1,000,200	0,100
*	Braze Inc. Class A		,		Class A	826,884	8,004
*		226,651	17,488	*	CoreCard Corp.	205,921	7,990
*	Identiv Inc.	599,960	16,883	*	Sprinklr Inc. Class A	503,494	7,990
1	Groupon Inc. Vivid Seats Inc.	727,221	16,842	*	Smith Micro	000,101	7,000
	Class A	1,527,100	16,615		Software Inc.	1,589,694	7,821
*,1	Aehr Test Systems	681,104	16,469	*	MeridianLink Inc.	349,328	7,538
	SolarWinds Corp.	1,148,947	16,304	*	Asure Software Inc.	936,577	7,333
*	OneSpan Inc.	953,338	16,140	*	EverQuote Inc.		
*,1	Cyxtera	,	,		Class A	463,139	7,253
	Technologies Inc.	1,180,626	14,888	*,1	Intapp Inc.	272,438	6,855
*	Kimball			*	EMCORE Corp.	978,233	6,828
	Electronics Inc.	681,124	14,821	*	comScore Inc.	1,926,362	6,434
*	SEMrush			*	Pixelworks Inc.	1,360,829	5,988
	Holdings Inc.			*,1	Couchbase Inc.	236,438	5,901
	Class A	700,407	14,603	*,1	Phunware Inc.	2,190,620	5,761
	Hackett Group Inc.	703,805	14,449	*,1	NextNav Inc.	641,600	5,620
*,1	IonQ Inc.	820,400	13,701	*,1	Zeta Global Holdings		
*,1	Clear Secure Inc.				Corp. Class A	659,450	5,553
	Class A	422,535	13,255	*	Innodata Inc.	912,571	5,402
	PC Connection Inc.	305,972	13,197	*,1	KULR Technology		
*	Upland Software Inc.	719,805	12,913		Group Inc.	1,942,837	5,362
*	Vertex Inc. Class A	812,212	12,890	*,1	WM Technology Inc.	893,261	5,342
*	Expensify Inc.			*	Immersion Corp.	927,552	5,296
	Class A	286,159	12,591	*	Daktronics Inc.	1,034,740	5,225
*	Limelight	0.004.400	40.400	*	AvePoint Inc.	778,650	4,898
* 4	Networks Inc.	3,621,469	12,422	*,1	KORE Group		
*,1	Rackspace	006 604	10.010		Holdings Inc.	719,616	4,850
*,1	Technology Inc.	906,694	12,213	*,1	VirnetX Holding Corp.	1,835,130	4,771
*,1	Atomera Inc.	598,972	12,051	*,1	Greenidge		
,.	Semiconductor Inc.				Generation	206.076	4.766
	Class A	959,946	11,510	*	Holdings Inc.	296,976	4,766
	NVE Corp.	166,862	11,397		Everspin Technologies Inc.	420,060	4,747
*	Enfusion Inc. Class A	543,647	11,384	*	Synchronoss	420,000	4,747
*	Brightcove Inc.	1,108,617	11,330		Technologies Inc.	1,886,342	4,603
*	Benefitfocus Inc.	984,491	10,495	*	Computer Task	.,000,012	.,000
*	AXT Inc.	1,158,144	10,203		Group Inc.	448,443	4,471
*	eGain Corp.	994,878	9,929	*,1	Nuvve Holding Corp.	321,077	4,277
*	GTY Technology	001,070	0,020	*	SecureWorks Corp.	,	,
	Holdings Inc.	1,455,833	9,754		Class A	263,152	4,203
*,1	Red Violet Inc.	234,813	9,320	*,1	Exela		
*,1	Cleanspark Inc.	971,716	9,251		Technologies Inc.	4,732,805	4,153
*	MediaAlpha Inc.	,	-,		Richardson		
	Class A	598,704	9,244		Electronics Ltd.	298,587	4,037
*,1	Xometry Inc. Class A	177,983	9,122	*,1	BuzzFeed Inc.	740,107	3,945
*,1	Nextdoor	•	•	*	Viant Technology Inc.		
	Holdings Inc.	1,140,000	8,995		Class A	388,628	3,772
*	CyberOptics Corp.	193,062	8,977	*	Issuer Direct Corp.	126,490	3,725
*,1	Kopin Corp.	2,191,200	8,962	*,1	SkyWater		
*	Quantum Corp.	1,620,965	8,948	_	Technology Inc.	217,410	3,526
*	TrueCar Inc.	2,596,466	8,828	*	AstroNova Inc.	250,452	3,381
*	ForgeRock Inc.				inTEST Corp.	262,097	3,334
	Class A	310,395	8,284	*	Intevac Inc.	685,231	3,227

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Park City Group Inc.	546,003	3,178	*	Qumu Corp.	459,382	974
*,1	NerdWallet Inc.			*,1	Akerna Corp.	547,065	957
	Class A	187,176	2,911	*	GSE Systems Inc.	541,861	927
*	Zedge Inc. Class B	329,626	2,802	*	WidePoint Corp.	231,461	910
*	Arteris Inc.	127,965	2,701	*,1	Glimpse Group Inc.	85,600	844
*	TransAct			*,1	Intrusion Inc.	244,034	839
*	Technologies Inc.	247,478	2,698	*	Data I/O Corp.	180,859	834
	Amtech Systems Inc.	268,244	2,650	*	Streamline Health		
*,1	Waitr Holdings Inc.	3,543,228	2,622		Solutions Inc.	536,995	789
*,1	Stronghold Digital	100 E07	0.565	*	Peraso Inc.	176,997	743
*,1	Mining Inc. Class A Remark Holdings Inc.	199,597 2,574,727	2,565 2,553	*	Crown		
*	Intellicheck Inc.	522,431	2,555		ElectroKinetics Corp.	184,921	738
*,1	eMagin Corp.	1,840,738	2,414	*	Rubicon	104,921	/30
*,1	Inpixon	3,857,401	2,375		Technology Inc.	80,276	720
*,1	Super League	3,037,401	2,314	*	CVD Equipment	00,270	720
,.	Gaming Inc.	969,852	2,289		Corp.	165,470	682
*,1	Blend Labs Inc.	000,002	2,200	*	EngageSmart Inc.	27,578	665
	Class A	290,885	2,135	*	RealNetworks Inc.	675,168	662
*	GSI Technology Inc.	460,392	2,132	*,1	PetVivo Holdings Inc.	173,200	653
*,1	Boxlight Corp.		,	*,1	CYNGN Inc.	134,700	606
	Class A	1,524,589	2,104	*	BTCS Inc.	176,100	553
*	Mastech Digital Inc.	119,078	2,033	*,1	BSQUARE Corp.	299,286	512
*,1	1stdibs.com Inc.	162,021	2,027	*,1	Terawulf Inc.	31,426	473
*,1	Verb Technology Co.			*	Bridgeline Digital Inc.	200,736	454
	Inc.	1,624,862	2,015		SilverSun		
*,1	Quantum				Technologies Inc.	99,500	443
	Computing Inc.	576,947	1,967	*	Alfi Inc.	173,138	398
*	Steel Connect Inc.	1,313,081	1,825	*,1	NXT-ID Inc.	125,063	383
*,1	SeaChange	4 000 470	4 704	*,1	Weave		
*,1	International Inc.	1,082,170	1,731		Communications		
^, 1	American Virtual Cloud				Inc.	24,444	371
	Technologies Inc.	680,707	1,654	*	Oblong Inc.	351,708	362
*,1	IronNet Inc.	379,700	1,595	*,1	Backblaze Inc.	01 007	001
*	QuickLogic Corp.	305,351	1,560	*	Class A	21,397	361
*,1	One Stop	000,001	1,000		Summit Wireless Technologies Inc.	242,859	338
	Systems Inc.	314,266	1,556	*	UserTesting Inc.	34,465	290
*	Key Tronic Corp.	244,100	1,518	*	VerifyMe Inc.	84,041	268
*	Research	,	.,	*	CynergisTek Inc.	158,445	208
	Frontiers Inc.	819,655	1,410	*	Recruiter.com	130,443	220
*	Trio-Tech International	104,880	1,409		Group Inc.	71,564	187
*,1	Inuvo Inc.	2,563,824	1,359	*	Evolving	,	
*	Aware Inc.	424,390	1,337		Systems Inc.	72,375	162
*,1	Flux Power			*	EverCommerce Inc.	10,223	161
	Holdings Inc.	305,905	1,312	*	Sigma Labs Inc.	54,433	100
*,1	Cipher Mining Inc.	282,658	1,309	*	Creative Realities Inc.	66,218	93
*	NetSol			*,2	Media General Inc.		
	Technologies Inc.	324,880	1,280		CVR	2,351,648	91
*	AutoWeb Inc.	349,274	1,188	*	Data Storage Corp.	24,445	75
*,1	Creatd Inc.	554,557	1,159	*	Paltalk Inc.	24,400	69
*	CSP Inc.	129,793	1,141	*	Duos Technologies		
*	AudioEye Inc.	162,397	1,140		Group Inc.	12,313	63
*	Kubient Inc.	377,509	1,140	*	iPower Inc.	25,320	60
*	OMNIQ Corp.	175,600	1,085				
*	SigmaTron International Inc.	00 274	1 015				
	mternational IIIC.	98,274	1,015				

		Charac	Market Value• (\$000)			Charas	Market Value•
*		Shares		*		Shares	(\$000)
*,2	Marin Software Inc.	345	1	_	Extreme Networks Inc.	3,689,355	57,923
, 2	Ikonics Corp. CVR	7,226_		*,1	fuboTV Inc.	3,494,561	54,236
			396,652,125	*	8x8 Inc.	3,079,617	51,614
Telec	communications (2.6	%)		*	Infinera Corp.	5,119,042	49,092
	Cisco Systems Inc.	107,877,184	6,836,177		Shenandoah	3,113,042	45,052
	Comcast Corp.				Telecommunications	3	
	Class A	129,584,186	6,521,972		Co.	1,349,631	34,416
	Verizon Communications			*	Plantronics Inc.	1,153,101	33,832
	Inc.	107,366,928	5,578,786	*	Harmonic Inc.	2,748,862	32,327
	AT&T Inc.	202,950,408	4,992,580	*	WideOpenWest Inc.	1,468,857	31,610
*	Charter	202,000,400	4,002,000		ADTRAN Inc.	1,374,161	31,372
	Communications			*,1	Globalstar Inc.	25,381,523	29,443
	Inc. Class A	3,312,233	2,159,477	*	Clearfield Inc.	329,610	27,826
*	T-Mobile US Inc.	15,974,584	1,852,732	*	EchoStar Corp.		
	Motorola				Class A	1,051,825	27,716
	Solutions Inc.	4,799,588	1,304,048	*	IDT Corp. Class B	579,260	25,580
*	Arista Networks Inc.		941,590	Ţ	NETGEAR Inc.	788,783	23,040
*	Roku Inc.	3,345,570	763,459	*	Digi International Inc.		22,778
*	Liberty Broadband	4 000 000	000 400		Anterix Inc.	339,768	19,965
	Corp. Class C	4,236,306	682,469	*,1	Gogo Inc.	1,407,387	19,042
	Lumen	20 100 761	265 215		Comtech Telecommunications		
*	Technologies Inc. Ciena Corp.	29,108,761 4,402,630	365,315 338,870		Corp.	719,972	17,056
	Juniper	4,402,030	330,670	*	Consolidated	, 10,072	.,,000
	Networks Inc.	9,254,313	330,472		Communications		
	Cable One Inc.	163,144	287,696		Holdings Inc.	2,144,845	16,043
*	DISH Network Corp.			*,1	Inseego Corp.	2,727,854	15,903
	Class A	7,020,805	227,755	*	United States Cellular	r	
*	Lumentum				Corp.	454,355	14,321
	Holdings Inc.	1,951,849	206,447	*	Ooma Inc.	601,899	12,303
*	Frontier				ATN International Inc.	. 297,951	11,903
	Communications	0.055.400	005 440		Ribbon		
*	Parent Inc.	6,955,433	205,116		Communications Inc.	1,859,251	11,248
	Vonage Holdings Corp.	6,823,475	141,860	*,1	Akoustis	1,000,201	11,240
*	Iridium	0,023,473	141,000	,	Technologies Inc.	1,454,053	9,713
	Communications			*	Aviat Networks Inc.	274,106	8,793
	Inc.	3,380,165	139,567	*,1	AST	,,	27: 22
*	Calix Inc.	1,546,263	123,655		SpaceMobile Inc.	1,093,565	8,683
*	Viavi Solutions Inc.	6,757,330	119,064	*	Cambium Networks		
*	Altice USA Inc.				Corp.	299,325	7,672
	Class A	6,105,372	98,785	*	DZS Inc.	464,747	7,538
	Cogent			*	CalAmp Corp.	1,032,612	7,290
	Communications	1 000 100	00.000	*	Lantronix Inc.	748,596	5,862
*	Holdings Inc.	1,220,138	89,290	*	Casa Systems Inc.	979,691	5,555
*	Viasat Inc.	1,989,088	88,594	*	Powerfleet Inc.	919,204	4,357
	Liberty Broadband Corp. Class A	422,122	67,919		Spok Holdings Inc.	464,693	4,336
*	CommScope Holdin		07,010	_	KVH Industries Inc.	457,474	4,204
	Co. Inc.	5,791,443	63,938	-	Genasys Inc.	1,017,703	4,050
	InterDigital Inc.	872,791	62,518	*	Bel Fuse Inc. Class B	300,241	3,882
*	Vocera	,,.	,	-	Hemisphere Media Group Inc. Class A	478,622	2 400
	Communications			*,1	Applied	4/0,022	3,480
	Inc.	938,903	60,878	,.	Optoelectronics Inc.	664,868	3,417
	Telephone & Data			*	Airgain Inc.	291,442	3,098
	Systems Inc.	2,897,229	58,379	*,1	Resonant Inc.	1,683,883	2,879
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		Shares	Market Value• (\$000)		Shares	Market Value• (\$000)
*	PCTEL Inc.	434,105	2,461	Entergy Corp.	5,714,934	643,787
*	Crexendo Inc.	343,511	1,718	FirstEnergy Corp.	15,472,029	643,482
*,1	Airspan Networks	,	.,	PPL Corp.	21,339,452	641,464
	Holdings Inc.	384,800	1,458	DTE Energy Co.	4,954,133	592,217
	Network-1			CMS Energy Corp.		535,406
	Technologies Inc.	509,201	1,436	CenterPoint		
*,1	Vislink			Energy Inc.	17,873,135	498,839
*	Technologies Inc.	1,155,455	1,363	Evergy Inc.	6,450,795	442,589
	TESSCO Technologies Inc.	206 605	1 070	Alliant Energy Corp	o. 7,116,559	437,455
*	Franklin Wireless	206,685	1,279	AES Corp.	17,988,667	437,125
	Corp.	244,162	1,067	Atmos Energy Cor		394,317
*,1	ComSovereian	211,102	1,007	Essential Utilities I		347,074
	Holding Corp.	1,404,121	1,060	Vistra Corp.	13,721,078	312,429
1	Communications		,	NiSource Inc.	11,158,664	308,091
	Systems Inc.	278,558	669	NRG Energy Inc.	6,958,091	299,755
*	Optical Cable Corp.	92,325	496	UGI Corp.	5,944,590	272,916
*	Kaltura Inc.	89,047	300	Pinnacle West Cap Corp.	3,207,886	226,445
*	ClearOne Inc.	231,050	298	OGE Energy Corp.		218.264
*,1	Sonim			* Sunrun Inc.	5,589,969	191,736
* 1.0	Technologies Inc.	157,205	145	National Fuel Gas		165,572
*,1,2 *	FTE Networks Inc.	84,180	126	IDACORP Inc.	1.436.947	162,820
	ADDvantage Technologies			* Evogua Water	1,100,017	.02,020
	Group Inc.	47,738	83	Technologies Cor	p. 3,428,754	160,294
	Bel Fuse Inc. Class A	2,976	43	* Stericycle Inc.	2,609,693	155,642
*,1,2	Ominto Inc.	101,171	42	* Clean Harbors Inc.	1,392,330	138,913
			25 400 050	Portland General		
1 1+:1:+:	es (2.7%)		35,488,850	Electric Co.	2,546,506	134,761
Otiliti	NextEra Energy Inc.	55,764,274	5,206,153	Black Hills Corp.	1,817,589	128,267
	Duke Energy Corp.	21,854,432	2,292,530	Hawaiian Electric	2.055.222	100 646
	Southern Co.	30,114,223	2,065,233	Industries Inc. * Casella Waste	2,955,323	122,646
	Waste	00,114,220	2,000,200	Systems Inc.		
	Management Inc.	11,888,018	1,984,110	Class A	1,434,086	122,500
	Dominion Energy Inc.		1,808,142	ONE Gas Inc.	1,521,161	118,027
	Exelon Corp.	27,757,020	1,603,245	New Jersey	, - , -	,,,
	American Electric			Resources Corp.	2,731,235	112,144
	Power Co. Inc.	14,312,840	1,273,413	Southwest Gas		
	Sempra Energy	8,954,402	1,184,488	Holdings Inc.	1,597,867	111,931
	Xcel Energy Inc.	15,304,357	1,036,105	PNM Resources Ir		111,353
	Waste	7.00 70.	4 000 000	Avangrid Inc.	2,200,369	109,754
	Connections Inc.	7,403,704	1,008,903	American States	1 0 10 007	100 504
	American Water Works Co. Inc.	5,160,405	974,594	Water Co. California Water	1,049,827	108,594
	Public Service	5,100,405	374,534	Service Group	1,498,101	107,654
	Enterprise			1 Ormat	1,400,101	107,004
	Group Inc.	14,373,727	959,159	Technologies Inc.	1,273,967	101,026
	Eversource Energy	9,772,155	889,071	ALLETE Inc.	1,490,706	98,908
	WEC Energy			Spire Inc.	1,394,754	90,966
	Group Inc.	8,965,652	870,296	NorthWestern Cor	p. 1,538,545	87,943
	Republic			Avista Corp.	2,020,138	85,836
	Services Inc.	5,857,568	816,838	MGE Energy Inc.	1,029,166	84,649
	Edison International	10,794,013	736,691	South Jersey		
	Consolidated	0 554 064	720.050	Industries Inc.	3,186,187	83,223
*	Edison Inc.	8,554,261	729,850	Clearway Energy I		
	PG&E Corp. Ameren Corp.	56,007,922 7,258,374	679,936 646,068	Class C	2,138,445	77,048
	Ameren corp.	1,200,314	040,008			

		Shares	Market Value• (\$000)		Shares	Market Value• (\$000)
*	Sunnova Energy			Air T Funding Pfd.,		
	International Inc. Chesapeake Utilities	2,554,388	71,318	8.000%, 6/7/24	1,727	42
	Corp.	475,358	69,312	Total Preferred Stocks		F 040
	SJW Group	842,777	61,691	(Cost \$36)		5,310
	Middlesex Water Co.	470,857	56,644			
	Northwest Natural	.,	,-		Face	
	Holding Co. Clearway Energy Inc.	874,533	42,660		Amount (\$000)	
	Class A	1,185,258	39,682	Comparate Banda (0.00/)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
*	Harsco Corp.	2,234,958	37,346	Corporate Bonds (0.0%)		
*	US Ecology Inc.	886,627	28,319	Financials (0.0%)		
	Unitil Corp.	447,308	20,572	GAMCO		
	York Water Co.	386,277	19,229	Investors Inc.,		
*	Heritage-Crystal			4.000%,6/15/23	296	293
	Clean Inc.	487,014	15,594	(Cost \$296)	290	293
*	Archaea Energy Inc. Global Water	685,300	12,527		Shares	
	Resources Inc.	666,392	11,395			
	Artesian Resources			Temporary Cash Investm	ents (0.6%)	
	Corp. Class A	233,644	10,825	Money Market Fund (0.69	%)	
*	Pure Cycle Corp.	577,124	8,426	3,4 Vanguard Market		
	RGC Resources Inc.	289,761	6,667	Liquidity Fund,		
	Aris Water Solution Inc.			0.090% (Cost \$8,611,890)	86,130,993	8,612,238
	Class A	491,258	6,362		00,130,993	0,012,230
*,1	Vertex Energy Inc.	1,350,091	6,116	Total Investments		
	Via Renewables Inc.	.,,	2,	(100.2%) (Cost \$582,033,371)	1	,376,771,893
	Class A	367,644	4,202		1,	,370,771,033
*	Sharps Compliance			Other Assets and Liabilities—Net (-0.2%)		(2.250.041)
	Corp.	501,400	3,575			(3,359,041)
	Genie Energy Ltd. Class B	635,893	3,542	Net Assets (100%)	1,	373,412,852
*	Advanced Emissions	030,093	3,342	Cost is in \$000.		
	Solutions Inc.	447,249	2,961	See Note A in Notes to Finance	ial Statements.	
*,1	Cadiz Inc.	757,002	2,922	* Non-income-producing securit		
*	Quest Resource		·	1 Includes partial security position		
	Holding Corp.	392,752	2,726	total value of securities on loa	n is \$3,987,307,00	10.
*,1	Aqua Metals Inc.	1,740,923	2,141	2 Security value determined using	ng significant unob	servable
*	Perma-Fix			inputs.	21.11	16.1
	Environmental	205.044	0.050	3 Affiliated money market fund a and certain trusts and account		
*,1	Services Inc.	325,244	2,059	shown is the 7-day yield.	.s manageu by van	iguaru. Hate
*,1	Charah Solutions Inc.	316,062	1,495	4 Collateral of \$4.364,700,000 w	as received for se	curities on
,'	Renovare Environmental Inc.	612,155	429	loan, of which \$4,338,017,000		
	Ziiii Giiii Giii Gii Gii Gii Gii Gii Gii	0.2,.00_		Liquidity Fund and \$26,683,000		
			37,539,424	CVR—Contingent Value Rights		
	Common Stocks \$573,421,149)	1	,368,154,052	REIT—Real Estate Investment	Trust.	
Prefe	rred Stocks (0.0%)					
	Meta Materials Inc.					
	Pfd., 1/31/22	3,488,956	5,268			

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 Russell 2000 Index	March 2022	1,914	214,636	2,623
E-mini S&P 500 Index	March 2022	18,701	4,449,435	96,842
E-mini S&P Mid-Cap 400 Index	March 2022	240	68,105	1,583
				101,048

Over-the-Counter Total Return Swaps

Reference Entity	Termination Date	Counterparty	Notional Amount (\$000)	Floating Interest Rate Received (Paid) ¹ (%)	Value and Unrealized Appreciation (\$000)	Value and Unrealized (Depreciation) (\$000)
Bandwidth Inc. Class A	8/31/22	BOANA	6,163	(0.521)	6	_
Consolidated Edison Inc.	8/31/22	BOANA	116,460	(0.578)	12,629	_
New York Community Bancorp Inc.	8/31/22	BOANA	5,391	(0.623)	101	_
Popular Inc.	8/31/22	BOANA	10,895	(0.474)	643	
Signature Bank	8/31/23	BOANA	90,978	(0.834)	6,034	_
State Street Corp.	8/31/23	BOANA	229,098	(0.675)	11,721	_
Visa Inc. Class A	8/31/22	BOANA	43,598	0.029	5,247	_
Williams Cos. Inc.	8/31/22	BOANA	36,970	(0.470)	_	(483)
					36,381	(483)

¹ Based on USD Overnight Bank Funding Rate as of the most recent payment date. Floating interest payment received/paid monthly. BOANA—Bank of America, N.A.

At December 31, 2021, the counterparties had deposited in segregated accounts securities with a value of \$36,068,000 in connection with open over-the-counter swap contracts.

Statement of Assets and Liabilities

As of December 31, 2021

(\$000s, except shares and per-share amounts)	Amount
Assets	
Investments in Securities, at Value	
Unaffiliated Issuers (Cost \$573,421,481)	1,368,159,655
Affiliated Issuers (Cost \$8,611,890)	8,612,238
Total Investments in Securities	1,376,771,893
Investment in Vanguard	43,666
Cash	190,969
Cash Collateral Pledged—Futures Contracts	247,630
Receivables for Investment Securities Sold	31,586
Receivables for Accrued Income	847,968
Receivables for Capital Shares Issued	788,733
Unrealized Appreciation—Over-the-Counter Swap Contracts	36,381
Total Assets	1,378,958,826
Liabilities	
Payables for Investment Securities Purchased	142,980
Collateral for Securities on Loan	4,364,700
Payables for Capital Shares Redeemed	999,768
Payables to Vanguard	24,036
Variation Margin Payable—Futures Contracts	14,007
Unrealized Depreciation—Over-the-Counter Swap Contracts	483
Total Liabilities	5,545,974
Net Assets	1,373,412,852

Statement c	f Assets	and	Liabilities	(continued)
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At December 31, 2021, net assets consisted of:	
(\$000s, except shares and per-share amounts)	Amount
Paid-in Capital	591,207,805
Total Distributable Earnings (Loss)	782,205,047
Net Assets	1,373,412,852
Investor Shares—Net Assets	
Applicable to 1,139,944,671 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	133,976,597
Net Asset Value Per Share—Investor Shares	\$117.53
ETF Shares—Net Assets	
Applicable to 1,238,501,714 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	299,087,859
Net Asset Value Per Share—ETF Shares	\$241.49
Admiral Shares—Net Assets	
Applicable to 2,906,961,253 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	341,732,532
Net Asset Value Per Share—Admiral Shares	\$117.56
Institutional Shares—Net Assets	
Applicable to 2,120,191,912 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	249,281,850
Net Asset Value Per Share—Institutional Shares	\$117.58
Institutional Plus Shares—Net Assets	
Applicable to 1,344,965,858 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	296,554,290
Net Asset Value Per Share—Institutional Plus Shares	\$220.49
Institutional Select Shares – Net Assets	
Applicable to 228,128,137 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	52,779,724
Net Asset Value Per Share—Institutional Select Shares	\$231.36

Statement of Operations

	Year Ended December 31, 2021 (\$000)
Investment Income	
Income	
Dividends—Unaffiliated Issuers ¹	16,541,541
Dividends—Affiliated Issuers	_
Interest—Unaffiliated Issuers	54
Interest—Affiliated Issuers	4,107
Securities Lending—Net	154,799
Total Income	16,700,501
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	19,467
Management and Administrative—Investor Shares	191,795
Management and Administrative—ETF Shares	60,934
Management and Administrative—Admiral Shares	109,061
Management and Administrative—Institutional Shares	55,582
Management and Administrative—Institutional Plus Shares	45,193
Management and Administrative—Institutional Select Shares	3,969
Marketing and Distribution—Investor Shares	7,150
Marketing and Distribution—ETF Shares	7,604
Marketing and Distribution—Admiral Shares	8,899
Marketing and Distribution—Institutional Shares	5,611
Marketing and Distribution—Institutional Plus Shares	3,061
Marketing and Distribution—Institutional Select Shares	1
Custodian Fees	2,032
Auditing Fees	399
Shareholders' Reports—Investor Shares	1,013
Shareholders' Reports—ETF Shares	2,476
Shareholders' Reports—Admiral Shares	1,265
Shareholders' Reports—Institutional Shares	1,151
Shareholders' Reports—Institutional Plus Shares	83
Shareholders' Reports—Institutional Select Shares	_
Trustees' Fees and Expenses	357
Interest Expense	_
Total Expenses	527,103
Net Investment Income	16,173,398
Realized Net Gain (Loss)	
Capital Gain Distributions Received—Affiliated Issuers	144
Investment Securities Sold—Unaffiliated Issuers ²	23,905,095
Investment Securities Sold—Affiliated Issuers	211

Statement of Operations (continued)

	Year Ended December 31, 2021
	(\$000)
Futures Contracts	1,472,639
Swap Contracts	27,042
Realized Net Gain (Loss)	25,405,131
Change in Unrealized Appreciation (Depreciation)	
Investment Securities—Unaffiliated Issuers	238,465,157
Investment Securities—Affiliated Issuers	1,052
Futures Contracts	(6,444)
Swap Contracts	36,234
Change in Unrealized Appreciation (Depreciation)	238,495,999
Net Increase (Decrease) in Net Assets Resulting from Operations	280,074,528

¹ Dividends are net of foreign withholding taxes of \$1,369,000.

² Includes \$21,208,071,000 of net gain (loss) resulting from in-kind redemptions.

Statement of Changes in Net Assets

	Year Ended December 31,	
	2021 (\$000)	2020 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	16,173,398	15,540,727
Realized Net Gain (Loss)	25,405,131	3,258,780
Change in Unrealized Appreciation (Depreciation)	238,495,999	170,087,718
Net Increase (Decrease) in Net Assets Resulting from Operations	280,074,528	188,887,225
Distributions		
Investor Shares	(1,676,741)	(2,178,405)
ETF Shares	(3,403,927)	(2,643,535)
Admiral Shares	(4,103,816)	(4,040,472)
Institutional Shares	(2,969,898)	(2,632,899)
Institutional Plus Shares	(3,559,330)	(3,283,515)
Institutional Select Shares	(647,913)	(503,956)
Total Distributions	(16,361,625)	(15,282,782)
Capital Share Transactions		
Investor Shares	(51,574,306)	(11,200,923)
ETF Shares	44,386,309	32,847,249
Admiral Shares	1,876,942	(23,050,842)
Institutional Shares	22,144,976	(1,802,186)
Institutional Plus Shares	14,016,596	1,241,423
Institutional Select Shares	(1,862,868)	11,449,267
Net Increase (Decrease) from Capital Share Transactions	28,987,649	9,483,988
Total Increase (Decrease)	292,700,552	183,088,431
Net Assets		
Beginning of Period	1,080,712,300	897,623,869
End of Period	1,373,412,852	1,080,712,300

Investor Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$94.71	\$79.66	\$62.08	\$66.70	\$56.06
Investment Operations					
Net Investment Income ¹	1.284	1.284	1.279	1.275	1.086
Capital Gain Distributions Received	.0001,2	2 _	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.837	15.026	17.634	(4.703)	10.630
Total from Investment Operations	24.121	16.310	18.913	(3.428)	11.716
Distributions					
Dividends from Net Investment Income	(1.301)	(1.260)	(1.333)	(1.192)	(1.076)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.301)	(1.260)	(1.333)	(1.192)	(1.076)
Net Asset Value, End of Period	\$117.53	\$94.71	\$79.66	\$62.08	\$66.70
Total Return ³	25.59%	20.87%	30.65%	-5.26%	21.05%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$133,977	\$153,845	\$139,686	\$121,266	\$126,766
Ratio of Total Expenses to Average Net Assets	0.14%	0.14%	0.14%	0.14%	0.14%
Ratio of Net Investment Income to Average Net Assets	1.20%	1.62%	1.78%	1.86%	1.77%
Portfolio Turnover Rate ⁴	4%	8%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

³ 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.

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.

ETF Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$194.61	\$163.70	\$127.56	\$137.06	\$115.21
Investment Operations					
Net Investment Income ¹	2.912	2.831	2.809	2.781	2.361
Capital Gain Distributions Received	.0001,	2 —	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	46.898	30.848	36.236	(9.676)	21.832
Total from Investment Operations	49.810	33.679	39.045	(6.895)	24.193
Distributions					
Dividends from Net Investment Income	(2.930)	(2.769)	(2.905)	(2.605)	(2.343)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.930)	(2.769)	(2.905)	(2.605)	(2.343)
Net Asset Value, End of Period	\$241.49	\$194.61	\$163.70	\$127.56	\$137.06
Total Return	25.72%	20.95%	30.80%	-5.13%	21.16%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$299,088	\$202,075	\$138,067	\$94,809	\$91,862
Ratio of Total Expenses to Average Net Assets	0.03%	0.03%	0.03%	0.03%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.31%	1.73%	1.89%	1.97%	1.87%
Portfolio Turnover Rate ³	4%	8%	4%	3%	3%
10111111					

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

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.

Admiral Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$94.74	\$79.69	\$62.09	\$66.72	\$56.08
Investment Operations					
Net Investment Income ¹	1.402	1.364	1.360	1.344	1.148
Capital Gain Distributions Received	.0001,2	_	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.833	15.025	17.646	(4.711)	10.633
Total from Investment Operations	24.235	16.389	19.006	(3.367)	11.781
Distributions					
Dividends from Net Investment Income	(1.415)	(1.339)	(1.406)	(1.263)	(1.141)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.415)	(1.339)	(1.406)	(1.263)	(1.141)
Net Asset Value, End of Period	\$117.56	\$94.74	\$79.69	\$62.09	\$66.72
Total Return ³	25.71%	20.99%	30.80%	-5.17%	21.17%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$341,733	\$273,622	\$252,536	\$185,102	\$190,099
Ratio of Total Expenses to Average Net Assets	0.04%	0.04%	0.04%	0.04%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.30%	1.72%	1.88%	1.96%	1.87%
Portfolio Turnover Rate ⁴	4%	8%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

³ 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.

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.

Institutional Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$94.75	\$79.70	\$62.10	\$66.73	\$56.09
Investment Operations					
Net Investment Income ¹	1.416	1.374	1.365	1.354	1.153
Capital Gain Distributions Received	.0001,2	_	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.841	15.024	17.649	(4.715)	10.630
Total from Investment Operations	24.257	16.398	19.014	(3.361)	11.783
Distributions					
Dividends from Net Investment Income	(1.427)	(1.348)	(1.414)	(1.269)	(1.143)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.427)	(1.348)	(1.414)	(1.269)	(1.143)
Net Asset Value, End of Period	\$117.58	\$94.75	\$79.70	\$62.10	\$66.73
Total Return	25.73%	21.00%	30.81%	-5.16%	21.17%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$249,282	\$180,586	\$152,716	\$115,115	\$113,557
Ratio of Total Expenses to Average Net Assets	0.03%	0.03%	0.03%	0.03%	0.035%
Ratio of Net Investment Income to Average Net Assets	1.31%	1.73%	1.89%	1.97%	1.87%
Portfolio Turnover Rate ³	4%	8%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

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 Plus Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$177.69	\$149.47	\$116.46	\$125.14	\$105.18
Investment Operations					
Net Investment Income ¹	2.672	2.591	2.575	2.555	2.182
Capital Gain Distributions Received	.0001,	2 —	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	42.823	28.172	33.100	(8.842)	19.938
Total from Investment Operations	45.495	30.763	35.675	(6.287)	22.120
Distributions					
Dividends from Net Investment Income	(2.695)	(2.543)	(2.665)	(2.393)	(2.160)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.695)	(2.543)	(2.665)	(2.393)	(2.160)
Net Asset Value, End of Period	\$220.49	\$177.69	\$149.47	\$116.46	\$125.14
Total Return	25.74%	21.02%	30.82%	-5.15%	21.19%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$296,554	\$226,288	\$188,188	\$135,641	\$126,130
Ratio of Total Expenses to Average Net Assets	0.02%	0.02%	0.02%	0.02%	0.02%
Ratio of Net Investment Income to Average Net Assets	1.32%	1.74%	1.90%	1.98%	1.89%
Portfolio Turnover Rate ³	4%	8%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

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 Select Shares

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2021	2020	2019	2018	2017
Net Asset Value, Beginning of Period	\$186.45	\$156.83	\$122.20	\$131.31	\$110.37
Investment Operations					
Net Investment Income ¹	2.821	2.772	2.709	2.704	2.311
Capital Gain Distributions Received	.0001,2	2 _	_	_	_
Net Realized and Unrealized Gain (Loss) on Investments	44.937	29.532	34.731	(9.290)	20.908
Total from Investment Operations	47.758	32.304	37.440	(6.586)	23.219
Distributions					
Dividends from Net Investment Income	(2.848)	(2.684)	(2.810)	(2.524)	(2.279)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.848)	(2.684)	(2.810)	(2.524)	(2.279)
Net Asset Value, End of Period	\$231.36	\$186.45	\$156.83	\$122.20	\$131.31
Total Return	25.75%	21.03%	30.84%	-5.14%	21.20%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$52,780	\$44,296	\$26,431	\$20,262	\$14,163
Ratio of Total Expenses to Average Net Assets	0.01%	0.01%	0.01%	0.01%	0.01%
Ratio of Net Investment Income to Average Net Assets	1.33%	1.76%	1.91%	1.99%	1.90%
Portfolio Turnover Rate ³	4%	8%	4%	3%	3%

¹ Calculated based on average shares outstanding.

² Distribution was less than \$.001 per share.

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.

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.

Market disruptions associated with the COVID-19 pandemic have had a global impact, and uncertainty exists as to the long-term implications. Such disruptions can adversely affect assets of the fund and thus fund performance.

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. Bonds and 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 securities pledged as initial margin for open contracts are noted in the Schedule of Investments.

Futures contracts are valued at their quoted daily settlement prices. The notional amounts of the contracts are not recorded in the Statement of Assets and Liabilities. Fluctuations in the value of the contracts are recorded in the Statement of Assets and Liabilities 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 gains (losses) on futures contracts.

During the year ended December 31, 2021, 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.

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's 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 Schedule of Investments. 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.

The notional amounts of swap contracts are not recorded in the Statement of Assets and Liabilities. 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 Assets and Liabilities as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until periodic payments are made or the termination of the swap, at which time realized gain (loss) is recorded.

During the year ended December 31, 2021, 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. The fund's tax returns are open to examination by the relevant tax authorities until expiration of the applicable statute of limitations, which is

generally three years after the filing of the tax return. Management has analyzed the fund's tax positions taken for all open federal and state income tax years, and has concluded that no provision for 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 at the fiscal year-end 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 pregualified 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 Assets and Liabilities for the return of the collateral, during the period the securities are on loan. Collateral investments in Vanguard Market Liquidity Fund are subject to market appreciation or depreciation. 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 Facilities and Interfund Lending Program: 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 and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes, subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed 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 either facility bear interest at a rate based upon the higher of the one-month London Interbank Offered Rate (or an acceptable alternate rate, if necessary), federal funds effective rate, or overnight bank funding rate plus an agreed-upon spread, except that borrowings under the uncommitted credit facility may bear interest based upon an alternative rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and

borrowings normally extend overnight, but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

The fund had no borrowings outstanding at December 31, 2021. The fund made one borrowing in the amount of \$1,000,000 to test the operational readiness of the credit facility process. The borrowing was outstanding for one business day at an annualized interest rate of 0.84%, and the related interest expense is recorded in the Statement of Operations.

8. Other: Dividend income is recorded on the ex-dividend date. Non-cash dividends included in income, if any, are recorded at the fair value of the securities received. 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 and 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, 2021, the fund had contributed to Vanguard capital in the amount of \$43,666,000, representing less than 0.01% of the fund's net assets and 17.46% 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 and derivatives. 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 and derivatives valued with significant unobservable inputs are noted on the Schedule of Investments.

The following table summarizes the market value of the fund's investments and derivatives as of December 31, 2021, based on the inputs used to value them:

	(\$000)	(\$000)	(\$000)	(\$000)
Investments				
Assets				
Common Stocks	1,368,142,978	1	11,073	1,368,154,052
Preferred Stocks	5,310	_	_	5,310
Corporate Bonds	_	293	_	293
Temporary Cash Investments	8,612,238	_	_	8,612,238
Total	1,376,760,526	294	11,073	1,376,771,893
Derivative Financial Instruments				
Assets				
Futures Contracts ¹	101,048	_	_	101,048
Swap Contracts	_	36,381	_	36,381
Total	101,048	36,381	_	137,429
Liabilities	<u> </u>			
Swap Contracts		483		483

¹ Includes cumulative appreciation (depreciation) on futures contracts and centrally cleared swaps, if any, as reported in the Schedule of Investments. Only current day's variation margin is reported within the Statement of Assets and Liabilities.

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	21,210,259
Total Distributable Earnings (Loss)	(21,210,259)

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 deferral of losses from wash sales; the recognition of unrealized gains or losses from certain derivative contracts; the recognition of unrealized gains from passive foreign investment companies; and the classification of securities for tax

purposes. 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	213,319
Undistributed Long-Term Gains	_
Capital Loss Carryforwards	(11,733,322)
Qualified Late-Year Losses	_
Net Unrealized Gains (Losses)	793,725,050

The tax character of distributions paid was as follows:

	Year Ended	Year Ended December 31,		
	2021 Amount (\$000)	2020 Amount (\$000)		
Ordinary Income*	16,361,625	15,282,782		
Long-Term Capital Gains	_	_		
Total	16,361,625	15,282,782		

^{*} Includes short-term capital gains, if any.

As of December 31, 2021, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	583,046,843
Gross Unrealized Appreciation	823,940,577
Gross Unrealized Depreciation	(30,215,527)
Net Unrealized Appreciation (Depreciation)	793,725,050

E. During the year ended December 31, 2021, the fund purchased \$106,017,595,000 of investment securities and sold \$75,014,896,000 of investment securities, other than temporary cash investments. Purchases and sales include \$43,964,953,000 and \$26,512,016,000, respectively, in connection with in-kind purchases and redemptions of the fund's capital shares.

The fund purchased securities from and sold securities to other Vanguard funds or accounts managed by Vanguard or its affiliates, in accordance with procedures adopted by the board of trustees in compliance with Rule 17a-7 of the Investment Company Act of 1940. For the year ended December 31, 2021, such purchases were \$2,704,413,000 and sales were \$2,806,659,000, resulting in net realized loss of \$78,188,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

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

	Year Ended December 31,					
		2021	2020			
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)		
Investor Shares						
Issued	496,590	4,799	14,516,361	207,934		
Issued in Lieu of Cash Distributions	1,676,741	15,550	2,178,405	28,832		
Redeemed	(53,747,637)	(504,787)	(27,895,689)	(365,845)		
Net Increase (Decrease)—Investor Shares	(51,574,306)	(484,438)	(11,200,923)	(129,079)		
ETF Shares						
Issued	69,095,066	308,260	50,514,859	305,434		
Issued in Lieu of Cash Distributions	_	_	_	_		
Redeemed	(24,708,757)	(108,100)	(17,667,610)	(110,500)		
Net Increase (Decrease)—ETF Shares	44,386,309	200,160	32,847,249	194,934		
Admiral Shares						
Issued	37,025,893	347,554	32,397,184	424,606		
Issued in Lieu of Cash Distributions	3,424,237	31,536	3,371,979	44,445		
Redeemed	(38,573,188)	(360,387)	(58,820,005)	(749,884)		
Net Increase (Decrease)—Admiral Shares	1,876,942	18,703	(23,050,842)	(280,833)		
Institutional Shares						
Issued	44,920,917	425,435	27,070,393	360,889		
Issued in Lieu of Cash Distributions	2,799,517	25,726	2,476,296	32,636		
Redeemed	(25,575,458)	(236,871)	(31,348,875)	(403,732)		
Net Increase (Decrease)—Institutional Shares	22,144,976	214,290	(1,802,186)	(10,207)		
Institutional Plus Shares						
Issued	27,268,129	137,022	28,455,775	204,305		
Issued in Lieu of Cash Distributions	3,498,917	17,171	3,238,183	22,739		
Redeemed	(16,750,450)	(82,739)	(30,452,535)	(212,599)		
Net Increase (Decrease)—Institutional Plus Shares	14,016,596	71,454	1,241,423	14,445		
Institutional Select Shares						
Issued	5,779,241	28,270	15,638,742	96,623		
Issued in Lieu of Cash Distributions	647,913	3,034	503,956	3,296		
Redeemed	(8,290,022)	(40,759)	(4,693,431)	(30,863)		
Net Increase (Decrease)—Institutional Select Shares	(1,862,868)	(9,455)	11,449,267	69,056		

G. 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. 31, 2020 Market Value (\$000)	Purchases at Cost (\$000)	Proceeds from Securities Sold ¹ (\$000)	Realized Net Gain (Loss) (\$000)	Change in Unrealized App. (Dep.) (\$000)	Income (\$000)	Capital Gain Distributions Received (\$000)	Dec. 31, 2021 Market Value (\$000)
180 Life Sciences Corp.	2,919	3,353	5,959	3,375	(934)	_	_	NA ²
Avenue Therapeutics Inc.	4,991	_	2,478	(1,993)	(235)	_	_	NA ²
Dare Bioscience Inc.	3,618	2,043	3,640	1,554	589	_	_	NA ²
Lifevantage Corp.	8,536	1,119	4,418	(3,261)	1,190	_	_	NA ²
Luby's Inc.	NA³	5,102	7,702	2,048	588	_	_	NA ²
NeuroMetrix Inc.	_	3,523	506	(636)	(1,287)	_	_	NA ²
Perma-Pipe International Holdings Inc.	2,860	1	1,550	(318)	1,274	_	_	NA ²
Research Solutions Inc.	4,035	1	3,110	(62)	282	_	_	NA ²
Vanguard Market Liquidity Fund	8,699,256	NA ⁴	NA ⁴	(496)	(415)	4,107	144	8,612,238
Total	8,726,215	15,142	29,363	211	1,052	4,107	144	8,612,238

¹ Does not include adjustments related to return of capital.

² Not applicable—at December 31, 2021, the security was still held, but the issuer was no longer an affiliated company of the fund.

³ Not applicable—at December 31, 2020, the issuer was not an affiliated company of the fund.

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

H. Management has determined that no events or transactions occurred subsequent to December 31, 2021, 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 assets and liabilities, including the schedule of investments, 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, 2021, the related statement of operations for the year ended December 31, 2021, the statement of changes in net assets for each of the two years in the period ended December 31, 2021, including the related notes, and the financial highlights for each of the five years in the period ended December 31, 2021 (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, 2021, 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, 2021 and the financial highlights for each of the five years in the period ended December 31, 2021 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, 2021 by correspondence with the custodian, transfer agent and brokers; when replies were not received from the transfer agent or brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania February 17, 2022

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

Special 2021 tax information (unaudited) for Vanguard Total Stock Market Index Fund

This information for the fiscal year ended December 31, 2021, is included pursuant to provisions of the Internal Revenue Code.

The fund distributed \$15,613,899,000 of qualified dividend income to shareholders during the fiscal year.

For corporate shareholders, 92.0% of investment income (dividend income plus short-term gains, if any) qualifies for the dividends-received deduction.

The fund distributed \$747,726,000 of qualified business income to shareholders during the fiscal year.

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 Vanquard. The Vanquard 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.

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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 217 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 (2019-present) of Vanguard and of each of the investment companies served by Vanguard; chief executive officer (2018-present) of Vanguard; chief executive officer, president, and trustee (2018-present) of each of the investment companies served by Vanguard; president and director (2017-present) of Vanguard; and president (2018-present) of Vanguard Marketing Corporation. Chief investment officer (2013-2017), managing director (2002-2017), head of the Retail Investor Group (2006–2012), and chief information officer (2001-2006) of Vanguard. Member of the board of governors of the Investment Company Institute and the board of governors of FINRA. Trustee and vice chair of The Shipley School.

Independent Trustees

Tara Bunch

Born in 1962. Trustee since November 2021. Principal occupation(s) during the past five years and other experience: head of global operations at Airbnb (2020–present). Vice president of AppleCare (2012–2020). Member of the board of directors of Out & Equal (2002–2006), the advisory board of the University of California, Berkeley School of Engineering (2020–present), and the advisory board of Santa Clara University's Leavey School of Business (2018–present).

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. Member of the board of directors of the University of Rochester Medical Center, the Monroe Community College Foundation. the United Way of Rochester, North Carolina A&T University, Roberts Wesleyan College, and the Rochester Philharmonic Orchestra. Trustee of the University of Rochester.

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

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.

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). Director of the V Foundation. Member of the advisory council for the College of Arts and Letters at the University of Notre Dame. Chairman of the board of Saint Anselm College.

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: adjunct professor of finance at the University of Notre Dame (2020–present). Chief investment officer (retired 2020) and vice president (retired 2020) of the University of Notre Dame. Assistant professor (retired June 2020) of finance at the Mendoza College of Business, University of Notre Dame, and member of the Notre Dame 403(b) Investment Committee. Member of the board of Catholic Investment Services, Inc. (investment advisors), the board of superintendence of the Institute for the Works of Religion, and the board of directors of Paxos Trust Company (finance).

Deanna Mulligan

Born in 1963. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: chief executive officer of Purposeful (advisory firm for CEOs and C-level executives; 2021–present). Board chair (2020), chief executive officer (2011–2020), and president (2010–2019) of The Guardian Life Insurance Company of America. Chief operating officer (2010–2011) and executive vice president (2008–2010) of Individual Life and Disability of the Guardian Life Insurance Company of America. Member of the board of the Economic Club of New York. Trustee of the Partnership for New York City (business leadership), Chief Executives for Corporate Purpose, and the NewYork-Presbyterian Hospital.

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 co-managing partner of HighVista Strategies (private investment firm). Member of the board (2018–present) of RIT Capital Partners (investment firm). Member of the investment committee 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. Colin W. Brown Distinguished Professor of the Practice of Law (2021–present), professor (2020–present), Distinguished Fellow of the Global Financial Markets Center (2020–present), and Rubenstein Fellow (2017–2020) at Duke University. Trustee (2017–present) of Amherst College and member of Amherst College Investment Committee (2019–present). Member of the Regenerative Crisis Response Committee (2020–present).

David A. Thomas

Born in 1956. Trustee since July 2021. Principal occupation(s) during the past five years and other experience: president of Morehouse College (2018–present). Professor of business administration, emeritus at Harvard University (2017–2018). Dean (2011–2016) and professor of management (2016–2017) at the Georgetown University McDonough School of Business. Director of DTE Energy Company (2013–present). Trustee of Common Fund (2019–present).

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). Member of the BMW Group Mobility Council.

Executive Officers

Christine M. Buchanan

Born in 1970. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief financial officer (2021–present) and 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 (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.

John Galloway

Born in 1973. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Investment stewardship officer (September 2020–present) of each of the investment companies served by Vanguard. Head of Investor Advocacy (February 2020–present) and head of Marketing Strategy and Planning (2017–2020) at Vanguard. Special assistant to the President of the United States (2015).

Peter Mahonev

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 (2019–present) of Vanguard Marketing Corporation.

Vanguard Senior Management Team

Matthew Benchener Joseph Brennan Mortimer J. Buckley Gregory Davis John James John T. Marcante Chris D. McIsaac Thomas M. Rampulla Karin A. Risi Anne E. Robinson Michael Rollings Nitin Tandon Lauren Valente

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