# **Vanguard**<sup>®</sup>

Annual Report | December 31, 2023

Vanguard Total Stock Market Index Fund

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

#### Important information about shareholder reports

Beginning in July 2024, amendments adopted by the Securities and Exchange Commission will substantially impact the design, content, and transmission of shareholder reports. Shareholder reports will provide key fund information in a clear and concise format and must be mailed to each shareholder that has not elected to receive the reports electronically. Financial statements will no longer be included in the shareholder report but will be available at vanguard.com, can be mailed upon request, or can be accessed on the SEC's website at www.sec.gov.

You may elect to receive shareholder reports and other communications from the fund electronically by contacting your financial intermediary (such as a broker-dealer or bank) or, if you invest directly with the fund, by calling Vanguard at one of the phone numbers on the back cover of this report or by logging on to vanguard.com.

#### Contents

Your Fund's Performance at a Glance
About Your Fund's Expenses
Performance Summary4
Financial Statements

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, 2023, returns for Vanguard Total Stock Market Index Fund ranged from 25.89% for Investor Shares to 26.05% for Institutional Select Shares.
- The fourth quarter of 2023 was a volatile period for the financial markets. Stocks and bonds continued to lose ground early on amid concerns that interest rates might remain elevated for an extended period. They went on to post strong gains, however, as inflation remained on a downward trend and economic growth softened, leading the markets to anticipate that policy rates had reached their peak and that cuts were likely not too far down the road
- 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.
- The majority of the index's 11 sectors recorded positive returns for the 12 months. Consumer discretionary, consumer staples, and energy stocks helped performance the most.

#### Market Barometer

	Average Annual Total Returns Periods Ended December 31, 2023			
	One Year	Three Years	Five Years	
Stocks				
Russell 1000 Index (Large-caps)	26.53%	8.97%	15.52%	
Russell 2000 Index (Small-caps)	16.93	2.22	9.97	
Russell 3000 Index (Broad U.S. market)	25.96	8.54	15.16	
FTSE All-World ex US Index (International)	15.82	1.98	7.52	
Bonds				
Bloomberg U.S. Aggregate Float Adjusted Index (Broad taxable market)	5.60%	-3.33%	1.17%	
Bloomberg Municipal Bond Index (Broad tax-exempt market)	6.40	-0.40	2.25	
FTSE Three-Month U.S. Treasury Bill Index	5.26	2.24	1.91	
СРІ				
Consumer Price Index	3.35%	5.60%	4.07%	

# 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, 2023

	Beginning Account Value 6/30/2023	Ending Account Value 12/31/2023	Expenses Paid During Period
Based on Actual Fund Return			
Total Stock Market Index Fund			
Investor Shares	\$1,000.00	\$1,084.10	\$0.74
ETF Shares	1,000.00	1,084.80	0.16
Admiral™ Shares	1,000.00	1,084.70	0.21
Institutional Shares	1,000.00	1,084.70	0.16
Institutional Plus Shares	1,000.00	1,084.80	0.11
Institutional Select Shares	1,000.00	1,084.80	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

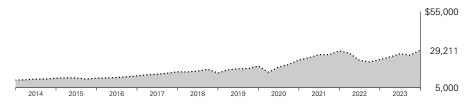
The calculations are based on expenses incurred in the most recent six-month period. The fund's annualized six-month expense ratios for that period are: 0.14% for Investor Shares, 0.03% for ETF Shares, 0.04% for Admiral Shares, 0.03% for Institutional Shares, 0.02% for Institutional Plus Shares, and 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, 2013, Through December 31, 2023 Initial Investment of \$10,000



		ided Decembe		
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Investor Shares	25.89%	14.95%	11.32%	\$29,211
······ CRSP US Total Market Index	25.98	15.08	11.44	29,545

Average Appual Total Returns

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund ETF Shares Net Asset Value	26.03%	15.07%	11.44%	\$29,530
Total Stock Market Index Fund ETF Shares Market Price	26.11	15.09	11.44	29,546
CRSP US Total Market Index	25.98	15.08	11.44	29,545

Average Annual	Total Returns
Periods Ended Decem	nber 31, 2023

	Perious En	ided Decembe	81 31, 2023	
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Total Stock Market Index Fund Admiral Shares	26.01%	15.07%	11.43%	\$29,511
CRSP US Total Market Index	25.98	15.08	11.44	29,545

	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Total Stock Market Index Fund Institutional Shares	26.02%	15.08%	11.44%	\$14,770,565
CRSP US Total Market Index	25.98	15.08	11.44	14,772,640

	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	26.03%	15.09%	11.29%	\$253,032,140
CRSP US Total Market Index	25.98	15.08	11.28	252,780,380

<sup>&</sup>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	26.05%	15.10%	13.88%	\$13,269,271,000
CRSP US Total Market Index	25.98	15.08	13.85	13,249,208,500

<sup>&</sup>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, 2013, Through December 31, 2023

	One Year	Five Years	Ten Years
Total Stock Market Index Fund ETF Shares Market Price	26.11%	101.91%	195.46%
Total Stock Market Index Fund ETF Shares Net Asset Value	26.03	101.77	195.30
CRSP US Total Market Index	25.98	101.85	195.45

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, click on Price, and then scroll down to the Premium/Discount chart. The ETF premium/discount chart there shows the percentage and days on which the ETF Shares' market price was above or below the NAV.

#### **Fund Allocation**

As of December 31, 2023

Basic Materials	2.0%
Consumer Discretionary	14.5
Consumer Staples	4.7
Energy	4.1
Financials	10.8
Health Care	12.1
Industrials	13.1
Real Estate	3.0
Technology	31.1
Telecommunications	2.0
Utilities	2.6

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, 2023

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.

		Chara	Market Value•			Charre	Market Value•
		Shares	(\$000)			Shares	(\$000)
Com	mon Stocks (99.7%)				Commercial Metals		
Basic	Materials (2.0%)				Co.	3,662,937	183,293
	Linde plc	15,215,421	6,249,126		Element	7000 700	107007
	Freeport-				Solutions Inc. Timken Co.	7,229,788	167,297
	McMoRan Inc.	45,082,646	1,919,168			2,004,759	160,681
	Air Products and				Boise Cascade Co.	1,241,371	160,584
	Chemicals Inc.	6,979,284	1,910,928		Mueller Industries Inc.	2 200 170	150.047
	Ecolab Inc.	8,053,649	1,597,441	*		3,390,170	159,847
	Newmont Corp.	36,198,394	1,498,252		Valvoline Inc.	4,119,701	154,818
	Nucor Corp.	7,718,789	1,343,378		Balchem Corp.	1,012,353	150,587
	Dow Inc.	22,036,942	1,208,506		Cabot Corp.	1,763,060	147,215
	Fastenal Co.	17,917,428	1,160,512		Chemours Co.	4,653,687	146,777
	LyondellBasell				Westlake Corp.	1,000,421	140,019
	Índustries NV				Huntsman Corp.	5,311,450	133,477
	Class A	8,127,069	772,722		Ashland Inc.	1,467,336	123,711
	International Flavors				NewMarket Corp.	224,986	122,804
	& Fragrances Inc.	8,010,123	648,580		Avient Corp.	2,861,511	118,953
	Steel Dynamics Inc.	4,832,756	570,748		Carpenter Technology		
1	Albemarle Corp.	3,684,336	532,313		Corp.	1,463,624	103,625
	Celanese Corp.			*,1	Livent Corp.	5,630,396	101,235
	Class A	3,416,179	530,772		Innospec Inc.	778,885	95,990
	Avery Dennison				Quaker Chemical		
	Corp.	2,526,465	510,750		Corp.	424,919	90,686
	Reliance Steel &			*	MP Materials Corp.	4,501,073	89,346
	Aluminum Co.	1,798,844	503,101		Hecla Mining Co.	18,440,684	88,700
	CF Industries				Sensient		
	Holdings Inc.	5,986,618	475,936		Technologies Corp.	1,320,575	87,158
	International Paper	40.040.000			Materion Corp.	647,108	84,208
	Co.	10,843,662	391,998		Scotts Miracle-Gro	4 040 504	04.000
	Mosaic Co.	10,297,765	367,939		Co.	1,318,584	84,060
	Eastman Chemical	0.700.505	004 170		Uranium Energy	11 004 170	75 675
	Co.	3,720,535	334,178		Corp.	11,824,178	75,675
	Cleveland-Cliffs Inc.	15,908,609	324,854		Minerals	1 010 E10	70 701
	United States Steel	0.004.005	205 750		Technologies Inc.	1,019,510	72,701
	Corp.	6,284,695	305,750		Stepan Co.	666,767	63,043
	RBC Bearings Inc.	912,100	259,848		Sylvamo Corp.	1,141,927	56,080
	Royal Gold Inc.	2,060,474	249,235		Tronox Holdings plc	3,731,007	52,831
	FMC Corp.	3,919,469	247,123		Ingevity Corp.	1,026,403	48,467
	UFP Industries Inc.	1,836,357	230,555		Hawkins Inc.	588,517	41,443
	Olin Corp.	3,848,168	207,609	*	Coeur Mining Inc.	11,385,405	37,116
	Hexcel Corp.	2,646,399	195,172		Kaiser Aluminum	500.040	05.000
	Alcoa Corp.	5,603,401	190,516	*,1	Corp.	500,346	35,620
				-,1	Energy Fuels Inc.	4,709,210	33,859

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
-	Compass Minerals			*	Culp Inc.	296,017	1,714
	International Inc. Rverson Holding	1,294,205	32,769	*	Perma-Pipe International	290,017	1,714
	Corp.	910,099	31,562	*	Holdings Inc.	203,835	1,588
	Koppers	000 001	20.770		Gold Resource Corp.	3,809,091	1,432
*	Holdings Inc.	600,901	30,778	*,1	5E Advanced	065 074	1 262
*	TimkenSteel Corp.	1,299,552	30,474	*,1	Materials Inc.	965,874	1,362
*	Ecovyst Inc.	3,093,311	30,222	*	Comstock Inc.	2,159,157	1,183
	Worthington Steel Inc.	1,022,823	28,741	*,1	Ascent Industries Co	. 120,516	1,152
	Mativ Holdings Inc.	1,711,358	26,201	, '	Hycroft Mining Holding Corp.		
*	US Silica	1,711,336	20,201		Class A	460,846	1,129
	Holdings Inc.	2,293,847	25,943	*	Ampco-Pittsburgh	100,010	1,120
	AdvanSix Inc.	806,395	24,160		Corp.	366,153	1,000
	Schnitzer Steel	000,000	2.,.00	*	CPS Technologies	,	,
	Industries Inc.				Corp.	412,694	970
	Class A	765,690	23,093	*,1	Contango ORE Inc.	53,430	968
*,1	LanzaTech Global Inc.	4,424,472	22,255	*,1	Westwater		
	Haynes				Resources Inc.	1,414,240	799
	International Inc.	351,719	20,066	*	US Gold Corp.	174,184	740
*	Century Aluminum			*	Solitario Resources		
	Co.	1,585,067	19,243		Corp.	1,173,263	657
	Olympic Steel Inc.	285,467	19,041	*	United States	0.504.770	
*	Clearwater Paper	100.001	4		Antimony Corp.	2,524,776	629
	Corp.	486,081	17,557		United-Guardian Inc.	75,085	541
	LSB Industries Inc.	1,753,855	16,328		Flexible Solutions	077400	F00
*,1	Piedmont	EC4 COE	15.044		International Inc.	277,169	529
	Lithium Inc.	564,685	15,941		Chicago Rivet & Machine Co.	28,369	482
	GrafTech International Ltd.	5,984,730	13,107	*	Paramount Gold	20,309	402
*,1	Ur-Energy Inc.	8,257,023	12,716		Nevada Corp.	1,223,263	459
, .	American Vanguard	0,237,023	12,710	*,1	NioCorp	1,220,200	100
	Corp.	890,572	9,770		Developments Ltd.	103,592	330
*	Northwest Pipe Co.	283,882	8,590	*	TechPrecision Corp.	3,764	19
*	Rayonier Advanced	200,002	0,000			-	
	Materials Inc.	2,021,725	8,188	C	sumer Discretionary (	14 40/)	28,706,048
*,1	American Battery	, - , -	-,	Cons	•		11 256 762
	Technology Co.	1,618,965	7,593	*	Amazon.com Inc. Tesla Inc.	291,936,043	44,356,762
*	Alto Ingredients Inc.	2,655,238	7,063		Home Depot Inc.	84,816,985 31,218,717	21,075,324 10,818,846
*	Intrepid Potash Inc.	295,437	7,058		Costco Wholesale	31,210,717	10,010,040
	Omega Flex Inc.	89,349	6,300		Corp.	13,892,935	9,170,449
*,1	NN Inc.	1,558,286	6,233		Walmart Inc.	46,447,762	7,322,490
	FutureFuel Corp.	789,526	4,800		McDonald's Corp.	22,754,516	6,746,942
*	Universal Stainless &			*	Netflix Inc.	13,739,236	6,689,359
	Alloy Products Inc.	231,105	4,641		Walt Disney Co.	57,449,775	5,187,140
	Tredegar Corp.	804,870	4,354		NIKE Inc. Class B	38,409,213	4,170,088
*,1	Dakota Gold Corp.	1,569,599	4,112		Lowe's Cos. Inc.	18,036,282	4,013,975
	Eastern Co.	163,220	3,591	*	Booking	10,000,202	1,010,070
	Northern Technologies				Holdings Inc.	1,094,935	3,883,975
	International Corp.	303,498	3,575	-	Uber Tachnologies Inc	61 270 500	2 770 000
*	Unifi Inc.	515,832	3,435		Technologies Inc.	61,378,590	3,779,080
	Friedman				Starbucks Corp.	35,668,244	3,424,508
	Industries Inc.	206,261	3,189		TJX Cos. Inc.	35,865,717	3,364,563
*,1	Origin Materials Inc.	3,032,849	2,536	*	Target Corp. Chipotle Mexican	14,503,189	2,065,544
*	Glatfelter Corp.	1,272,895	2,469		Grill Inc. Class A	861,707	1,970,689
*	Idaho Strategic				Jilli IIIo. Class A	551,767	1,070,000
	Resources Inc.	277,137	1,755				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Lululemon			*	Live Nation		
	Athletica Inc. Marriott	3,621,016	1,851,389	*	Entertainment Inc. DraftKings Inc.	5,052,970	472,958
	International Inc.				Class A	13,217,995	465,934
	Class A	7,831,299	1,766,036		Pool Corp.	1,147,912	457,684
*	O'Reilly				Domino's Pizza Inc.	1,094,404	451,146
	Automotive Inc.	1,856,750	1,764,061	*	United Airlines		•
*	Airbnb Inc. Class A	11,603,011	1,579,634		Holdings Inc.	10,224,231	421,852
	General Motors Co.	42,988,371	1,544,142		Williams-		
	Ford Motor Co.	123,346,777	1,503,597		Sonoma Inc.	2,012,187	406,019
	Ross Stores Inc.	10,632,855	1,471,481		LKQ Corp.	8,351,964	399,140
	Hilton Worldwide				Rollins Inc.	9,124,902	398,484
	Holdings Inc.	8,044,785	1,464,875	*	Burlington Stores Inc.	2,034,277	395,626
*	AutoZone Inc.	553,650	1,431,523		Interpublic Group of		
	DR Horton Inc.	8,890,780	1,351,221		Cos. Inc.	12,043,183	393,089
*	Copart Inc.	27,162,623	1,330,969	*	Liberty Media		
	Electronic Arts Inc.	8,428,919	1,153,160		CorpLiberty		
	Yum! Brands Inc.	8,615,694	1,125,727		Formula One	0.077.070	202.045
	Lennar Corp. Class A	7,200,290	1,073,131		Class C	6,077,070	383,645
	Estee Lauder Cos.			*	RB Global Inc.	5,710,362	381,966
	Inc. Class A	6,943,908	1,015,547	_	CarMax Inc.	4,955,768	380,306
*	Trade Desk Inc.				MGM Resorts	0.005.500	001 001
	Class A	13,988,530	1,006,615		International	8,085,523	361,261
	Dollar General Corp.	6,882,039	935,613		Five Below Inc.	1,666,492	355,229
*	Dollar Tree Inc.	6,559,655	931,799		Floor & Decor Holdings Inc.		
*	Royal Caribbean				Class A	3,162,187	352,774
	Cruises Ltd.	6,831,605	884,625		News Corp. Class A	14,006,314	
*	Take-Two Interactive				Toll Brothers Inc.		343,855
	Software Inc.	5,345,755	860,399			3,331,799	342,476
	Delta Air Lines Inc.	20,229,400	813,829		Bath & Body Works Inc.	7,168,673	309,400
*	Aptiv plc	8,870,401	795,852	*	Etsy Inc.	3,773,821	305,868
*	Warner Bros	00.054.450	700 500		Service Corp.	3,773,021	303,606
	Discovery Inc.	68,851,450	783,530		International	4,406,219	301,606
	Ulta Beauty Inc.	1,542,479	755,799	*	Caesars	1, 100,210	001,000
	Tractor Supply Co.	3,384,809	727,835		Entertainment Inc.	6,410,374	300,518
	eBay Inc.	16,296,611	710,858		Churchill Downs Inc.	2,114,407	285,297
_	ROBLOX Corp.	15 202 202	701 070		Lithia Motors Inc.	, , ,	,
	Class A	15,333,999	701,070		Class A	865,940	285,137
	PulteGroup Inc.	6,770,519	698,853	*	BJ's Wholesale Club	·	,
	NVR Inc.	94,646	662,565		Holdings Inc.	4,208,555	280,542
	Expedia Group Inc.	4,184,092	635,103	*	American Airlines		
	Darden Restaurants Inc.	3,778,732	620.046		Group Inc.	20,378,081	279,995
	Garmin Ltd.		620,846		Wynn Resorts Ltd.	3,030,566	276,115
	Genuine Parts Co.	4,799,393	616,914	*,1	Norwegian Cruise		
		4,399,266	609,298		Line Holdings Ltd.	13,328,790	267,109
	Las Vegas Sands Corp.	11,991,371	E00 00E		BorgWarner Inc.	7,382,471	264,662
*	Carnival Corp.	31,549,608	590,095 584,930	*	Skechers USA Inc.		
*,1		31,049,000	304,930		Class A	4,217,465	262,917
, '	Rivian Automotive Inc.				Tapestry Inc.	7,111,533	261,776
	Class A	23,958,696	562,071		Tempur Sealy		
	Southwest Airlines	_0,000,000	332,071		International Inc.	5,132,344	261,596
	Co.	18,726,088	540,809		Lear Corp.	1,833,914	258,967
*	Deckers Outdoor	_,0,000	2 .0,000		Texas Roadhouse Inc.		
	Corp.	807,182	539,545		Class A	2,095,682	256,155
	Omnicom Group Inc.		535,585		Dick's Sporting	. =06	
	Best Buy Co. Inc.	6,139,256	480,581		Goods Inc.	1,739,677	255,646
	,	-,,	,		Vail Resorts Inc.	1,186,089	253,194

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	D II I OI A			*	1 ft 1 Ol A		
	Duolingo Inc. Class A		242,963		Lyft Inc. Class A	10,359,046	155,282
	Gentex Corp.	7,327,970	239,332		Ollie's Bargain Outlet Holdings Inc.	1,953,676	140 264
	New York Times Co.	4.075.070	220.020		· ·		148,264
*	Class A	4,875,072	238,830		Harley-Davidson Inc.	3,968,673	146,206
	elf Beauty Inc.	1,652,157	238,472		Lennar Corp. Class B	1,090,413	146,170
	Wingstop Inc.	918,383	235,639	_	Asbury Automotive	040 041	145 407
	Fox Corp. Class A	7,930,900	235,310		Group Inc.	646,341	145,407
1	Paramount Global		000 075		Signet Jewelers Ltd.	1,355,058	145,344
	Class B	15,711,631	232,375	*,1	GameStop Corp.	0.400.000	
	PVH Corp.	1,900,473	232,086		Class A	8,108,822	142,148
*	Light & Wonder Inc.	2,812,778	230,957		KB Home	2,260,447	141,188
	Aramark	8,180,487	229,872	*	YETI Holdings Inc.	2,722,296	140,960
*	SiteOne Landscape				Warner Music Group		
	Supply Inc.	1,411,044	229,295		Corp. Class A	3,907,597	139,853
	H&R Block Inc.	4,473,759	216,396	*	RH	465,212	135,600
	U-Haul Holding Co.				Boyd Gaming Corp.	2,132,494	133,515
	(XNYS)	3,069,293	216,201	*	Abercrombie & Fitch		
	Murphy USA Inc.	598,740	213,487		Co. Class A	1,488,248	131,293
	Hasbro Inc.	4,131,857	210,973	*	Goodyear Tire &		
*	Mattel Inc.	11,159,843	210,698		Rubber Co.	8,884,505	127,226
	Whirlpool Corp.	1,718,083	209,211	*	Penn		
	Wyndham Hotels &				Entertainment Inc.	4,788,112	124,587
	Resorts Inc.	2,577,810	207,282	*	Grand Canyon		
	VF Corp.	10,997,472	206,752		Education Inc.	938,607	123,934
	Meritage Homes	.,			Group 1		
	Corp.	1,145,598	199,563		Automotive Inc.	405,097	123,449
*	Planet Fitness Inc.			*,1	Lucid Group Inc.	29,302,260	123,363
	Class A	2,703,668	197,368		Gap Inc.	5,855,107	122,430
	Thor Industries Inc.	1,593,564	188,439	*	Skyline Champion		
*	Capri Holdings Ltd.	3,629,883	182,365		Corp.	1,636,945	121,560
	Hyatt Hotels Corp.	-,,	,		American Eagle		
	Class A	1,396,805	182,157		Outfitters Inc.	5,651,108	119,577
	Macy's Inc.	8,588,334	172,797	*	M/I Homes Inc.	824,931	113,626
*	Taylor Morrison	-,,	,		Advance Auto		
	Home Corp. Class A	3 213 724	171,452		Parts Inc.	1,853,842	113,140
*,1	Carvana Co. Class A	3,232,170	171,111	*	Visteon Corp.	880,378	109,959
*	Wayfair Inc. Class A	2,765,509	170,632		Kontoor Brands Inc.	1,760,230	109,874
*	Bright Horizons	2,700,000	170,002		Wendy's Co.	5,577,948	108,658
	Family				Newell Brands Inc.	12,511,597	108,601
	Solutions Inc.	1,808,279	170,412	*	Madison Square		
*	Crocs Inc.	1,785,218	166,757		Garden Sports Corp	. 584,597	106,297
	Ralph Lauren Corp.	.,,	,		Fox Corp. Class B	3,842,897	106,256
	Class A	1,123,334	161,985	*	Tri Pointe Homes Inc.	2,984,066	105,636
*	Liberty Media	.,.20,00	101,000		Leggett & Platt Inc.	3,961,707	103,678
	CorpLiberty				MDC Holdings Inc.	1,860,184	102,775
	SiriusXM	5,594,991	161,024		Penske Automotive	.,000,.0.	.02,770
	Polaris Inc.	1,697,142	160,838		Group Inc.	635,305	101,973
*	AutoNation Inc.	1,069,274	160,584		Kohl's Corp.	3,555,381	101,968
	Nexstar Media	1,000,271	100,001		Endeavor Group	0,000,001	101,000
	Group Inc. Class A	1,008,662	158,108		Holdings Inc.		
	TKO Group	1,000,002	100,100		Class A	4,286,164	101,711
	Holdings Inc.			1	Avis Budget	.,200,101	.51,711
	Class A	1,934,052	157,780		Group Inc.	566,589	100,434
	Academy Sports &	.,001,002	, ,	1	Sirius XM	555,555	.50, 104
	Outdoors Inc.	2,370,224	156,435		Holdings Inc.	18,293,199	100,064
*	Alaska Air Group Inc.	3,991,774	155,959	*	Hilton Grand	. 5,255,100	.50,004
*	Coty Inc. Class A	12,536,072	155,698		Vacations Inc.	2,408,429	96,771
	Coty IIIo. Class A	12,000,072	100,000		222.200.	_, ,	20,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
1	Choice Hotels		_	*	Victoria's Secret &		
	International Inc.	853,277	96,676		Co.	2,474,298	65,668
	LCI Industries	758,619	95,366	*	Coursera Inc.	3,383,851	65,545
	TEGNA Inc.	6,201,334	94,880		Strategic		
	Steven Madden Ltd.	2,223,926	93,405		Education Inc.	695,725	64,264
	Foot Locker Inc.	2,934,761	91,418		MillerKnoll Inc.	2,389,159	63,743
*	Helen of Troy Ltd.	753,216	90,996	*	Topgolf Callaway		
*	Fox Factory Holding	700,210	00,000		Brands Corp.	4,360,870	62,535
	Corp.	1,325,531	89,447	*	Peloton		,
*	Frontdoor Inc.	2,520,956	88,788		Interactive Inc.		
	Rush Enterprises Inc.	2,020,000	00,700		Class A	10,078,477	61,378
	Class A	1,739,141	87.479		Laureate		
*	Shake Shack Inc.	.,,,	0., 0		Education Inc.	4,443,437	60,920
	Class A	1,171,622	86,841	*	Brinker		
*	Cavco Industries Inc.	245,145	84,972		International Inc.	1,396,109	60,284
	Marriott Vacations	240,140	04,372		Dana Inc.	4,108,493	60,025
	Worldwide Corp.	987,026	83,789	*	ACV Auctions Inc.		
	Red Rock	307,020	00,700		Class A	3,958,132	59,966
	Resorts Inc. Class A	1 563 384	83,375	*	ODP Corp.	1,061,778	59,778
*	LGI Homes Inc.	624,713	83,187		Acushnet Holdings		,
	Columbia Sportswear	024,713	03,107		Corp.	936,380	59,151
	Co.	1,044,393	83,071	*	Under Armour Inc.	·	,
	Century	1,044,333	03,071		Class A	6,728,843	59,147
	Communities Inc.	911,199	83,047		PriceSmart Inc.	779,637	59,081
	Travel + Leisure Co.				Worthington	,	
		2,102,095	82,171		Enterprises Inc.	1,023,702	58,914
	Carter's Inc.	1,071,982	80,281	*	Dave & Buster's	.,,	
	Inter Parfums Inc.	554,419	79,842		Entertainment Inc.	1,082,554	58,296
	Papa John's	1 000 100	77017	*	SeaWorld	, ,	,
	International Inc.	1,022,129	77,917		Entertainment Inc.	1,102,240	58,231
	Stride Inc.	1,292,903	76,760	*	Liberty Media	, . ,	,
*,1	Chewy Inc. Class A	3,241,899	76,606		CorpLiberty Live		
	Bloomin' Brands Inc.	2,715,267	76,435		Class C	1,554,885	58,137
	Graham Holdings Co.				HNI Corp.	1,388,187	58,068
	Class B	107,268	74,714	*	JetBlue Airways	, ,	,
*	Liberty Media				Corp.	10,415,483	57,806
	CorpLiberty			1	Spirit Airlines Inc.	3,443,142	56,433
	Formula One	4 000 440	74.005	*	Six Flags	-, ,	
	Class A	1,288,116	74,685		Entertainment Corp.	2.224.063	55,780
Ĵ	Urban Outfitters Inc.	2,061,943	73,591	1	Nordstrom Inc.	3,002,654	55,399
	Boot Barn	005.040	74 770	*	Gentherm Inc.	1,050,070	54,982
	Holdings Inc.	935,012	71,772	*	Sabre Corp.	12,271,698	53,995
*	Dorman	000 700	00.004	1	Cracker Barrel Old	12,271,000	30,555
	Products Inc.	838,766	69,961		Country Store Inc.	697,023	53,727
*	TripAdvisor Inc.	3,247,375	69,916		Jack in the Box Inc.	647,278	52,837
*	PowerSchool			*			
	Holdings Inc.		00.005	*	Knowles Corp.	2,918,825	52,276
	Class A	2,956,909	69,665		National Vision	2 400 050	E1 007
*	SkyWest Inc.	1,323,803	69,103	*	Holdings Inc.	2,480,050	51,907
*	Adtalem Global				OPENLANE Inc.	3,458,235	51,216
	Education Inc.	1,171,522	69,061		Cheesecake	1 464 050	E4 4E0
*	Liberty Media			* 1	Factory Inc.	1,461,258	51,159
	CorpLiberty		00	*,1	Dutch Bros Inc.	1 610 000	E1 010
	SiriusXM Class A	2,395,862	68,857	*	Class A	1,610,682	51,010
*,1	QuantumScape Corp.		00 705	*	Atlanta Braves		
	Class A	9,885,651	68,705		Holdings Inc.	1 271 001	EV 330
*	Sonos Inc.	4,006,896	68,678		Class C	1,271,801	50,338
	Winnebago				La-Z-Boy Inc.	1,353,831	49,983
	Industries Inc.	913,869	66,603				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Green Brick				Perdoceo Education		
	Partners Inc.	941,204	48,886		Corp.	1,951,264	34,264
*	Cinemark	, -	,,,,,,,		Camping World	, , .	,
	Holdings Inc.	3,425,246	48,262		Holdings Inc.		
	Oxford Industries Inc.	473,074	47,307		Class A	1,302,180	34,195
*	Hanesbrands Inc.	10,584,496	47,207		Caleres Inc.	1,065,952	32,757
	Upbound Group Inc.	1,387,144	47,121	*	Malibu Boats Inc.		
*	Vista Outdoor Inc.	1,572,544	46,500		Class A	588,972	32,287
1	Levi Strauss & Co.			*	iRobot Corp.	833,053	32,239
	Class A	2,790,822	46,160	*	Beazer Homes	001 444	21 472
*	Under Armour Inc.		45 540		USA Inc.	931,444	31,473
*	Class C	5,451,414	45,519	*	Scholastic Corp. Sweetgreen Inc.	809,222	30,508
	Udemy Inc.	3,042,528	44,816		Class A	2,692,782	30,428
	Phinia Inc.	1,463,395	44,326	*	American Axle &	2,032,702	30,420
*	Buckle Inc.	931,987	44,288		Manufacturing		
	Rover Group Inc. Class A	4,060,625	44,180		Holdings Inc.	3,422,003	30,148
*	PROG Holdings Inc.	1,421,236	43,930	*	Everi Holdings Inc.	2,607,749	29,389
*	Sally Beauty	1,421,200	40,000	*	Sphere		
	Holdings Inc.	3,300,748	43,834		Entertainment Co.	862,977	29,307
*	Central Garden & Pet		•	*	Arlo Technologies Inc.		28,801
	Co. Class A	994,212	43,785		Monro Inc.	979,030	28,725
*	G-III Apparel Group				Monarch Casino &		
	Ltd.	1,287,921	43,764		Resort Inc.	414,055	28,632
	John Wiley &			*	Chico's FAS Inc.	3,692,504	27,989
	Sons Inc. Class A	1,327,396	42,132	*,1	Figs Inc. Class A	4,002,813	27,820
1	Krispy Kreme Inc.	2,735,545	41,279	1	Hibbett Inc.	372,701	26,842
	News Corp. Class B	1,592,765	40,966	*,1	Mister Car Wash Inc.	3,063,543	26,469
	Allegiant Travel Co.	493,502	40,768	*,1	Luminar Toobhologica Inc		
	Hertz Global	0.050.000	40.007		Technologies Inc. Class A	7,726,058	26,037
1	Holdings Inc.	3,853,393	40,037	*,1	Lions Gate	1,120,000	20,007
*	Dillard's Inc. Class A Integral Ad Science	97,101	39,195		Entertainment Corp.		
	Holding Corp.	2,719,909	39,139		Class A	2,384,374	25,990
*	Beyond Inc.	1,406,301	38,940	*	Driven Brands		
*,1	AMC Entertainment	1,400,001	00,040		Holdings Inc.	1,801,573	25,690
	Holdings Inc.				Golden		
	Class A	6,325,872	38,714		Entertainment Inc.	638,631	25,501
*	Chegg Inc.	3,373,772	38,326	*	MarineMax Inc.	651,461	25,342
	Winmark Corp.	90,427	37,758	*	Central Garden & Pet	E00.0E0	0F 010
*	Cars.com Inc.	1,982,139	37,601		Co. Sonic	503,252	25,218
	Steelcase Inc.				Automotive Inc.		
	Class A	2,780,543	37,593		Class A	444,708	24,997
*	Leslie's Inc.	5,395,474	37,283		Sturm Ruger & Co.	,	,
*	Lions Gate				Inc.	549,209	24,962
	Entertainment Corp.	2 600 626	26.702	*	BJ's Restaurants Inc.	690,579	24,868
*	Class B Madison Square	3,609,636	36,782	*	Portillo's Inc. Class A	1,511,719	24,082
	Garden				Gray Television Inc.	2,622,613	23,499
	Entertainment Corp.			*,1	Cava Group Inc.	544,510	23,403
	Class A	1,109,809	35,281		Ethan Allen		
*	XPEL Inc.	654,711	35,256		Interiors Inc.	705,592	22,522
*	Life Time Group				Dine Brands		
	Holdings Inc.	2,286,887	34,486		Global Inc.	452,134	22,448
	Matthews			_	Interface Inc. Class A	1,745,201	22,024
	International Corp.	00770	04.000	*	Liberty Media		
	Class A	937,734	34,368		CorpLiberty Live Class A	601,616	21,989
					3100071	331,010	21,000

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Hawaiian Holdings Inc.	1,532,692	21,764	*	First Watch Restaurant		
*	Dream Finders		,		Group Inc.	740,198	14,878
	Homes Inc. Class A	611,208	21,716		Arko Corp.	1,798,970	14,842
	Standard Motor			*	Stoneridge Inc.	753,568	14,747
	Products Inc.	542,883	21,612		Movado Group Inc.	468,835	14,135
	Wolverine World			*	Vizio Holding Corp.		
	Wide Inc.	2,402,640	21,359		Class A	1,798,846	13,851
*	Instructure	700.000	04.000	*	Daily Journal Corp.	40,386	13,764
	Holdings Inc.	789,800	21,333	*	Liquidity		
*	Sun Country Airlines	1 051 014	01.055		Services Inc.	795,167	13,685
*	Holdings Inc.	1,351,214	21,255	*	GoPro Inc. Class A	3,924,228	13,617
	Revolve Group Inc. Class A	1,280,737	21,235	*	Genesco Inc.	385,373	13,569
*	WW	1,200,737	21,233	*,1	Savers Value	700.004	40.000
	International Inc.	2,397,137	20,975	*	Village Inc.	766,904	13,329
*	Viad Corp.	577,927	20,921		America's Car-Mart Inc.	175 405	10 007
*	Chuy's Holdings Inc.	537,332	20,542			175,495	13,297
1	Guess? Inc.	889,181	20,505		Designer Brands Inc. Class A	1 470 026	13,097
*	Clean Energy Fuels	000,101	20,500	*	Kura Sushi USA Inc.	1,479,836	13,097
	Corp.	5,270,102	20,184		Class A	169,216	12,860
	Bluegreen Vacations	0,=: 0,:==		*	European Wax	100,210	12,000
	Holding Corp.				Center Inc. Class A	926,577	12,592
	Class A	268,375	20,160	1	Sinclair Inc.	954,858	12,442
*	Clear Channel			*	Bally's Corp.	868,349	12,105
	Outdoor			*	MasterCraft Boat	222,232	,
	Holdings Inc.	11,024,013	20,064		Holdings Inc.	519,098	11,752
*	Thryv Holdings Inc.	980,395	19,951	*,1	Bowlero Corp.		
*	Hovnanian				Class A	829,598	11,747
	Enterprises Inc.	400 404	40.040	*,1	Fisker Inc. Class A	6,621,961	11,588
	Class A	128,184	19,948	*	Lindblad Expeditions		
	Rush Enterprises Inc. Class B	260 245	10 560		Holdings Inc.	1,020,179	11,497
*,1		369,345	19,568	*	Lovesac Co.	428,899	10,958
, '	U-Haul Holding Co. Smith & Wesson	271,612	19,502	*	Potbelly Corp.	1,030,823	10,741
	Brands Inc.	1,433,189	19,434		Hooker Furnishings		
*	QuinStreet Inc.	1,509,277	19,349		Corp.	410,853	10,715
*	EW Scripps Co.	1,303,277	15,545		Marcus Corp.	734,527	10,709
	Class A	2,380,474	19,020	*	Gannett Co. Inc.	4,639,277	10,670
*	Denny's Corp.	1,741,210	18,944	*	Boston Omaha Corp.		
1	A-Mark Precious	.,,	,	,	Class A	670,390	10,545
	Metals Inc.	600,243	18,157	Ţ	Cardlytics Inc.	1,144,674	10,542
*	Arhaus Inc. Class A	1,502,715	17,807	*	Universal Technical	000 000	40.000
*	Stagwell Inc. Class A	2,659,382	17,632	*	Institute Inc.	822,926	10,303
*	Corsair Gaming Inc.	1,232,424	17,377		PlayAGS Inc.	1,193,838	10,064
*	AMC Networks Inc.				Carriage Services Inc.		
	Class A	918,757	17,263		Class A	402,181	10,059
	RCI Hospitality			*	Sleep Number Corp.	665,131	9,864
	Holdings Inc.	257,289	17,048	*	OneWater	000,101	3,004
*	Accel				Marine Inc. Class A	282,871	9,558
	Entertainment Inc.	4.054.004	40.055	*	Xponential	,	-,0
	Class A	1,651,081	16,957		Fitness Inc. Class A	741,194	9,554
	Shoe Carnival Inc.	523,116	15,803	*	Cooper-Standard		•
*,1	Wheels Up	4 510 007	15 400		Holdings Inc.	482,479	9,428
	Experience Inc.	4,516,667	15,492	*	Qurate Retail Inc.		
	Haverty Furniture Cos. Inc.	A20 120	15 0/1		Class A	10,684,542	9,354
	COS. IIIC.	432,133	15,341	*	Zumiez Inc.	459,022	9,337
					Aaron's Co. Inc.	853,131	9,282

		-	Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	Build-A-Bear	000 004	0.474		Hamilton Beach		
_	Workshop Inc.	398,931	9,171		Brands Holding Co.	044.050	0.000
-	1-800-Flowers.com	010 104	0.000		Class A	344,356	6,023
*	Inc. Class A	819,124	8,830		Full House Resorts Inc.	1,115,067	5,988
*	Children's Place Inc.	378,236	8,783	*	CarParts.com Inc.	1,883,644	5,952
	iHeartMedia Inc. Class A	2 272 276	0 727	*	American Public	1,003,044	5,352
*	Stitch Fix Inc. Class A	3,272,276	8,737		Education Inc.	615,683	5,941
*,1	Atlanta Braves	2,447,324	8,737	*	Selectauote Inc.	4,324,874	5,925
,.	Holdings Inc.			*	Outbrain Inc.	1,344,551	5,889
	Class A	201,557	8,623		Superior Group of	1,044,001	3,003
*	Holley Inc.	1,753,269	8,538		Cos. Inc.	435,584	5,880
*	National	1,700,200	0,000	*	ONE Group	.00,00 .	0,000
	CineMedia Inc.	2,010,420	8,323		Hospitality Inc.	946,750	5,794
*	Citi Trends Inc.	287,674	8,135	*	El Pollo Loco	,	-,
	Alta Equipment	, ,	-,		Holdings Inc.	645,328	5,692
	Group Inc.	655,855	8,113	*	Tilly's Inc. Class A	737,525	5,561
*	Eastman Kodak Co.	2,070,366	8,074	*,1	Angi Inc. Class A	2,202,894	5,485
*	Petco Health &			*,1	Blink Charging Co.	1,617,867	5,485
	Wellness Co. Inc.			*,1	ThredUp Inc. Class A	2,409,149	5,421
	Class A	2,513,685	7,943	*	AMMO Inc.	2,577,445	5,413
	Johnson				Cricut Inc. Class A	817,539	5,388
	Outdoors Inc.			*	Nerdy Inc.	1,554,944	5,333
	Class A	142,149	7,594	*	Century Casinos Inc.	1,084,503	5,292
*	JAKKS Pacific Inc.	213,410	7,587		Bassett Furniture	,,	-,
	Carrols Restaurant				Industries Inc.	318,476	5,287
	Group Inc.	945,470	7,450		Lakeland		
*,1	Frontier Group	1 050 000	7415		Industries Inc.	278,050	5,155
	Holdings Inc.	1,358,099	7,415	*	Solo Brands Inc.		
	J. Jill Inc.	284,934	7,346		Class A	833,123	5,132
	Rocky Brands Inc.	242,614	7,322	*,1	RealReal Inc.	2,548,706	5,123
	Destination XL	1 045 000	7000	*	Motorcar Parts of		
*	Group Inc.	1,645,333	7,239		America Inc.	536,128	5,007
	Rush Street Interactive Inc.	1,587,271	7,127	*	Tile Shop		
*	Funko Inc. Class A	918,414	7,127		Holdings Inc.	667,742	4,915
*	Legacy Housing	310,414	7,033	*	Noodles & Co.		
	Corp.	273,001	6,885		Class A	1,557,750	4,907
*,1	SES Al Corp.	3,668,700	6,714	*,1	Snap One Holdings	E01 0E0	4 704
*	Lincoln Educational	3,000,700	0,714		Corp.	531,350	4,734
	Services Corp.	660,298	6,629		Sportsman's		
	Entravision	000,200	0,020		Warehouse Holdings Inc.	1,060,404	4,517
	Communications			*,1	Surf Air Mobility Inc.	2,894,155	4,486
	Corp. Class A	1,589,251	6,627	*	LL Flooring	2,034,133	4,400
*,1	Red Robin Gourmet				Holdings Inc.	1,140,348	4,447
	Burgers Inc.	528,783	6,594		Nathan's	1,140,040	7,777
*	Playstudios Inc.	2,424,521	6,570		Famous Inc.	56,557	4,412
	Weyco Group Inc.	208,741	6,546	1	Big 5 Sporting Goods		.,
	Climb Global				Corp.	685,570	4,347
	Solutions Inc.	119,168	6,534	*,1	Vuzix Corp.	2,028,819	4,230
1	Big Lots Inc.	829,589	6,463	*	VOXX International	,,	.,
	Clarus Corp.	935,808	6,452		Corp. Class A	389,401	4,159
*	Vera Bradley Inc.	803,599	6,188	*	Emerald Holding Inc.	692,957	4,144
*	Landsea Homes			*,1	Canoo Inc.	15,747,112	4,050
	Corp.	470,898	6,188	*	American Outdoor		,
1	Escalade Inc.	306,383	6,155		Brands Inc.	479,165	4,025
					Cato Corp. Class A	551,948	3,941
				*	Allbirds Inc. Class A	3,156,493	3,867

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*,1	ContextLogic Inc.				CompX		
	Class A	619,250	3,685		International Inc.	64,007	1,618
*	Lands' End Inc.	385,220	3,683	*	Crown Crafts Inc.	322,459	1,599
	Townsquare	0.470.47			Envela Corp.	323,754	1,573
	Media Inc. Class A	347,347	3,668	*,1	Loop Media Inc.	1,562,500	1,563
	Acme United Corp.	85,287	3,655	*	Biglari Holdings Inc.		
*	Strattec Security	4.5.400			Class A	1,924	1,528
* 4	Corp.	145,120	3,644	*	Brilliant Earth	004.405	
*,1	Mondee			* 1	Group Inc. Class A	381,195	1,418
	Holdings Inc. Class A	1,309,000	3,613	*,1	Kirkland's Inc.	458,478	1,385
*	Traeger Inc.	1,319,878	3,603	*,1	Lazydays	104.054	1 070
*,1	Reservoir Media Inc.			*,1	Holdings Inc.	194,354	1,370
*	Universal	489,336	3,489	-,1	Focus Universal Inc.	932,363	1,361
	Electronics Inc.	344,481	3,235		Virco Manufacturing	110 700	1.050
*	Urban One Inc.			*	Corp.	112,729	1,356
*	Biglari Holdings Inc.	872,038	3,078	*	Harte Hanks Inc.	194,041	1,318
	Class B	18,317	3,021	*,1	Lee Enterprises Inc.	167,206	1,316
*,1	2U Inc.	2,445,776	3,008		Kartoon Studios Inc.	940,003	1,307
, .	Saga	2,440,770	3,006	*,1	Lulu's Fashion		
	Communications				Lounge	602 EE0	1 200
	Inc. Class A	134,076	2,985	*,1	Holdings Inc.	692,559	1,288
	Marine Products	10 1,070	2,000	*	Vacasa Inc. Class A Gaia Inc. Class A	153,870	1,262
	Corp.	255,346	2,911	*		447,999	1,210
*	Turtle Beach Corp.	265,654	2,909	*,1	Live Ventures Inc.	45,160	1,147
*	Superior Industries	200,001	2,000		Mesa Air Group Inc.	1,084,447	1,095
	International Inc.	883,561	2,827	*,1	Grove Collaborative	000 750	1 074
*	Kewaunee Scientific	,	,-	*,1	Holdings	606,752	1,074
	Corp.	96,393	2,802	1	Sonder Holdings Inc.	304,152	1,031
*	Container Store	,	,	'	FAT Brands Inc.	152.004	022
	Group Inc.	1,219,767	2,781		Class A	153,984	933
*	Latham Group Inc.	1,051,361	2,765	*	NL Industries Inc.	159,132	893
	Canterbury Park				Good Times Restaurants Inc.	350,945	891
	Holding Corp.	133,795	2,735	*,1	Rent the Runway Inc.	350,945	091
	Lifetime Brands Inc.	401,793	2,696	, .	Class A	1,617,196	853
	Flexsteel			*,1	Reading	1,017,100	000
	Industries Inc.	141,758	2,672	,.	International Inc.		
*	Duluth Holdings Inc.				Class A	438,093	837
	Class B	488,310	2,627	*,1	Express Inc.	98,917	828
*	Travelzoo	274,335	2,614	*,1	Owlet Inc.	155,507	821
*,1	Tupperware Brands				Ark Restaurants	.00,007	02.
	Corp.	1,306,065	2,612		Corp.	55,702	788
*,1	BARK Inc.	3,242,000	2,611	*	Marchex Inc. Class B	565,612	769
*,1	RumbleON Inc.			*	BowFlex Inc.	987,578	760
	Class B	319,763	2,603		DallasNews Corp.	176,590	754
*	Cumulus Media Inc.			*,1	Red Cat Holdings Inc.	849,136	747
	Class A	422,698	2,249	*,1	Aterian Inc.	2,126,982	741
*,1	LiveOne Inc.	1,608,595	2,236	*,1	FlexShopper Inc.	425,184	710
*	Fossil Group Inc.	1,471,211	2,148	*,1	Mullen	120,101	710
*,1	Ondas Holdings Inc.	1,363,437	2,086		Automotive Inc.	47,497	679
*	Conn's Inc.	411,902	1,829	*,1	Fluent Inc.	1,010,603	677
*	Barnes & Noble			*,1	Regis Corp.	70,385	665
	Education Inc.	1,154,766	1,721	*	CuriosityStream Inc.	986,623	533
*,1	Spruce Power			*	Koss Corp.	150,699	505
_	Holding Corp.	388,404	1,717	*,1	Envirotech	100,000	505
*	Delta Apparel Inc.	238,958	1,704		Vehicles Inc.	313,755	414
1	Purple Innovation Inc.		1 005			/	
	Class A	1,645,889	1,695				

		Shares	Market Value• (\$000)	Shares	Market Value• (\$000)
*	D 1 1:	Charos	(ФССС)		(4000)
	Dolphin Entertainment Inc.	229,216	392	* Tandy Leather Factory Inc. 500	2
*,1	Allied Gaming &	229,210	332	* Wilhelmina	۷
, .	Entertainment Inc.	342,015	363	International Inc. 442	2
*,2	Luby's Inc.	449,752	351	*,1,2 Empire Resorts Inc. 96,356	_
*,1	Cineverse Corp.	242,635	328		
*	Xcel Brands Inc.	251,214	324	C	210,349,410
1	Flanigan's			Consumer Staples (4.7%)	
	Enterprises Inc.	11,919	307	Procter & Gamble Co. 73,967,537	10,839,203
*	Vince Holding Corp.	85,410	296	PepsiCo Inc. 43,131,669	7,325,483
*,1	Hall of Fame Resort			Coca-Cola Co. 122,030,194	7,191,239
	& Entertainment			Philip Morris	7,101,200
	Co.	85,677	278	International Inc. 48,747,332	4,586,149
*	Beasley Broadcast	011500	070	CVS Health Corp. 40,406,129	3,190,468
	Group Inc. Class A	314,502	276	Mondelez	0,100,100
* 4	Dixie Group Inc.	359,932	268	International Inc.	
*,1	BurgerFi	210 E 42	267	Class A 42,730,464	3,094,968
*,1	International Inc. Charles & Colvard	310,543	267	Altria Group Inc. 55,353,895	2,232,976
, ,	Ltd.	610,246	250	Colgate-Palmolive	
	Jerash Holdings	010,240	250	Co. 25,787,168	2,055,495
	US Inc.	80,817	248	McKesson Corp. 4,174,496	1,932,708
*,1	Sadot Group Inc.	608,212	244	* Monster Beverage	
*,1	Inspirato Inc.	55,734	206	Corp. 22,917,718	1,320,290
*,1	InterGroup Corp.	10,732	196	Kimberly-Clark Corp. 10,585,549	1,286,250
*,1	United Homes			Archer-Daniels- Midland Co. 16,746,061	1 200 401
	Group Inc.	21,683	183	Midland Co. 16,746,061 General Mills Inc. 18,241,161	1,209,401 1,188,229
*,1	XWELL Inc.	104,340	179	Constellation	1,100,229
*,1	Salem Media			Brands Inc. Class A 4,906,458	1,186,136
	Group Inc. Class A	419,347	164	Kenvue Inc. 54,119,715	1,165,198
*,1	Sobr Safe Inc.	310,977	146	Sysco Corp. 15,798,785	1,155,365
*,1	JOANN Inc.	323,778	144	Cencora Inc. 5,304,363	1,089,410
*,1 *	Stran & Co. Inc.	97,248	144	Corteva Inc. 22,171,535	1,062,460
	Rave Restaurant	46 106	103	Keurig Dr Pepper Inc. 30,686,046	1,022,459
1	Group Inc. FAT Brands Inc.	46,126	103	Kroger Co. 20,360,209	930,665
·	Class B	17,809	96	Kraft Heinz Co. 25,011,090	924,910
*,1	Faraday Future	17,000	30	Hershey Co. 4,705,718	877,334
	Intelligent			Church & Dwight Co.	
	Electric Inc. Class A	393,706	91	Inc. 7,714,063	729,442
*	Forward			Walgreens Boots	
	Industries Inc.	117,209	84	Alliance Inc. 21,800,031	569,199
*	Twin Vee PowerCats			Clorox Co. 3,882,721	553,637
	Co.	34,923	49	Brown-Forman Corp. Class B 9.682.517	EE0 070
*	Moving Image	40.004	40	Class B 9,682,517 McCormick & Co.	552,872
*,1	Technologies Inc.	48,384	46	Inc. (Non-Voting) 7,884,820	539,479
*,2	AYRO Inc.	24,804	44 41	Bunge Global SA 5,075,322	512,354
, <del>_</del>	SRAX Inc.	590,641		Lamb Weston	312,004
*	EzFill Holdings Inc. Yunhong Green CTI	24,047	39	Holdings Inc. 4,553,654	492,205
	Ltd.	17,688	38	Kellanova 8,649,740	483,607
*	Getaround Inc.	117,845	28	Tyson Foods Inc.	•
*	SRM	117,040	20	Class A 8,959,978	481,599
	Entertainment Inc.	16,042	25	Conagra Brands Inc. 15,001,656	429,948
*	GEN Restaurant	•		J M Smucker Co. 3,161,197	399,512
	Group Inc. Class A	2,800	22	Molson Coors	
*	Emerson Radio Corp.	6,500	4	Beverage Co.	0.47400
				Class B 5,672,253	347,199

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
*	Darfarman as Food		(4000)	*	Chefs'		(4000)
	Performance Food Group Co.	4,895,921	338,553		Warehouse Inc.	1,119,739	32,954
	Casey's General	4,000,021	330,333		Weis Markets Inc.	508,993	32,555
	Stores Inc.	1,171,299	321,803	*	Vita Coco Co. Inc.	1,248,717	32,030
*	US Foods Holding	.,.,.,200	021,000		Nu Skin	1,240,717	32,030
	Corp.	6,973,734	316,677		Enterprises Inc.		
	Hormel Foods Corp.	8,580,482	275,519		Class A	1,644,073	31,928
	Campbell Soup Co.	6,066,612	262,260	*	Pilgrim's Pride Corp.	1,114,855	30,837
*	Darling	0,000,01=	,	*	Hain Celestial	.,,	
	Ingredients Inc.	5,020,693	250,231		Group Inc.	2,798,829	30,647
*,1	Celsius Holdings Inc.	4,384,104	239,021		WK Kellogg Co.	2,320,989	30,498
*	BellRing Brands Inc.	4,103,119	227,436	*	United Natural	,,	,
	Albertsons Cos. Inc.	.,,	,		Foods Inc.	1,861,429	30,211
	Class A	9,827,443	226,031		Fresh Del Monte		
	Ingredion Inc.	2,044,572	221,897		Produce Inc.	1,141,145	29,955
*	Sprouts Farmers			1	B&G Foods Inc.	2,716,263	28,521
	Market Inc.	3,194,287	153,677		Seaboard Corp.	7,493	26,751
*	Post Holdings Inc.	1,539,609	135,578		John B Sanfilippo &		
	Coca-Cola				Son Inc.	238,465	24,571
	Consolidated Inc.	144,888	134,514		SpartanNash Co.	1,017,792	23,358
*	Freshpet Inc.	1,538,541	133,484		Medifast Inc.	337,612	22,694
	Flowers Foods Inc.	5,298,033	119,259	*	USANA Health		
*	Simply Good Foods				Sciences Inc.	340,345	18,243
	Co.	2,844,191	112,630	*,1	Beyond Meat Inc.	1,926,592	17,147
	WD-40 Co.	425,094	101,627		ACCO Brands Corp.	2,700,003	16,416
	Lancaster Colony				Turning Point		
	Corp.	608,983	101,329		Brands Inc.	575,320	15,142
*	Boston Beer Co. Inc.				Calavo Growers Inc.	512,935	15,085
	Class A	286,622	99,054		Tootsie Roll		
1	Brown-Forman Corp.				Industries Inc.	452,012	15,025
	Class A	1,648,803	98,252	*	Duckhorn		
	Spectrum Brands				Portfolio Inc.	1,427,054	14,057
	Holdings Inc.	1,090,150	86,961	*	Mission Produce Inc.	1,350,087	13,622
	Grocery Outlet	0.707704	75 457	1	Limoneira Co.	586,683	12,103
	Holding Corp.	2,787,724	75,157	*,1	Westrock Coffee Co.	1,154,372	11,786
	Cal-Maine Foods Inc.	1,253,578	71,943	*	Vital Farms Inc.	742,708	11,653
	Primo Water Corp.	4,773,493	71,841		Oil-Dri Corp. of		
	Energizer Holdings Inc.	2 257547	71 510		America	162,617	10,908
*	TreeHouse Foods Inc.	2,257,547 1,523,930	71,519	*,1 *	Cibus Inc. Class A	464,861	9,130
	J & J Snack Foods	1,023,930	63,167		Seneca Foods Corp.	100 700	0.505
	Corp.	367,900	61,491		Class A	162,763	8,535
	Andersons Inc.	1,010,398	58,138	*	Beauty Health Co.	2,693,942	8,378
	Edgewell Personal	1,010,000	30,130	_	Olaplex Holdings Inc.	3,027,448	7,690
	Care Co.	1,547,749	56,694		Nature's Sunshine	20E 010	6.045
	Universal Corp.	735,460	49,511		Products Inc.	395,918	6,845
	Vector Group Ltd.	4,172,849	47,070		Natural Grocers by Vitamin Cottage Inc.	424,248	6,788
*	Herbalife Ltd.	3,053,237	46,592	* 1	Lifecore	424,240	0,700
	Reynolds Consumer	0,000,207	10,002	, .	Biomedical Inc.	937,582	5,804
	Products Inc.	1,690,710	45,379		Village Super	007,002	0,001
	MGP Ingredients Inc.	449,025	44,238		Market Inc. Class A	220,062	5,772
	Ingles Markets Inc.	5,020	. 1,200	*	HF Foods Group Inc.	1,044,744	5,579
	Class A	442,146	38,188	*	Honest Co. Inc.	1,538,602	5,077
*	National Beverage	, -	-,	*	Mama's	,,555,552	0,077
	Corp.	743,862	36,985		Creations Inc.	994,476	4,883
*	Sovos Brands Inc.	1,613,068	35,536		PetMed Express Inc.	640,080	4,839
	Utz Brands Inc.	2,062,507	33,495	*	LifeMD Inc.	568,168	4,710
		-	•			,	.,0

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	\A/I   F   //	Ondres	(4000)		DI :II: 00		,
	Whole Earth Brands Inc.	1,332,300	4,543		Phillips 66 Marathon Petroleum	13,815,147	1,839,349
*	GrowGeneration	1,332,300	4,545		Corp.	11,917,416	1,768,068
	Corp.	1,753,390	4,401		Pioneer Natural	11,017,110	1,700,000
*,1	BRC Inc. Class A	1,202,500	4,365		Resources Co.	7,320,701	1,646,279
*,1	Veru Inc.	3,724,907	2,682		Valero Energy Corp.	10,686,807	1,389,285
*	Lifeway Foods Inc.	172,782	2,317		Williams Cos. Inc.	38,131,661	1,328,126
*,1	ProPhase Labs Inc.	408,045	1,844		ONEOK Inc.	18,252,480	1,281,689
*	Farmer Bros Co.	511,916	1,567		Hess Corp.	8,666,210	1,249,321
	Lifevantage Corp.	253,547	1,521		Occidental Petroleun		
	AMCON Distributing	_			Corp.	20,716,100	1,236,958
	Co.	7,756	1,512		Cheniere Energy Inc.	. 7,093,964	1,211,011
*,1	PLBY Group Inc.	1,487,321	1,487		Baker Hughes Co.	04 547400	4 077055
*	Zevia PBC Class A	544,118	1,094		Class A	31,517,109	1,077,255
*,1	Natural Alternatives		1.040		Kinder Morgan Inc.	59,319,149	1,046,390
*	International Inc.	162,521	1,043		Halliburton Co.	25,324,661	915,487
	Real Good Food Co. Inc. Class A	562,143	854		Devon Energy Corp. Diamondback	20,081,157	909,676
*	Willamette Valley	302,143	004		Energy Inc.	5,614,964	870,769
	Vineyards Inc.	152,433	808		Targa Resources	3,014,004	070,700
*,1	Benson Hill Inc.	3,980,438	692		Corp.	7,005,378	608,557
*	Vintage Wine	.,,			Coterra Energy Inc.	22,492,038	573,997
	Estates Inc.	1,296,027	651	*	First Solar Inc.	3,184,010	548,541
*	Rocky Mountain			*	Enphase Energy Inc.		536,268
	Chocolate				EQT Corp.	12,889,857	498,322
	Factory Inc.	128,662	591		Marathon Oil Corp.	18,308,764	442,340
*,1	Splash Beverage	050.644	EOE		Ovintiv Inc.	8,535,024	374,858
*,1	Group Inc. Bridaford Foods	950,644	525		APA Corp.	9,633,764	345,659
, '	Corp.	42,038	460		Texas Pacific Land		
*	S&W Seed Co.	558,871	391		Corp.	192,838	303,228
*,1	Barfresh Food	330,071	331		Chesapeake Energy	0.050.504	
	Group Inc.	233,784	374		Corp.	3,853,561	296,493
*,1	Urban-Gro Inc.	227,616	319		HF Sinclair Corp.	4,796,487	266,541
*,1	Local Bounti Corp.	130,217	270		TechnipFMC plc	13,049,762	262,822
	Mannatech Inc.	30,953	243	*	NOV Inc.	12,375,780	250,981
*,1	AquaBounty				Southwestern Energy Co.	34,249,181	224,332
	Technologies Inc.	45,065	128	*	Weatherford	34,243,101	224,332
	Alico Inc.	4,320	126		International plc	2,253,743	220,484
*,1	Kaival Brands				Range Resources	_,,	,
	Innovations	F00 000	447		Corp.	7,198,883	219,134
*,1	Group Inc.	582,869	117		Permian Resources		
, '	Maison Solutions In Class A	c. 77,000	106		Corp. Class A	15,268,929	207,657
*,1	22nd Century	77,000	100		Chord Energy Corp.	1,226,339	203,854
	Group Inc.	247,632	46		Civitas		
*,1	MedAvail	,			Resources Inc.	2,931,872	200,481
	Holdings Inc.	4,362	19		Murphy Oil Corp.	4,649,419	198,344
*,1	Stryve Foods Inc.				Antero Resources	8,502,420	102 925
	Class A	2,189	6		Corp. Matador Resources	0,502,420	192,835
		_	68,518,415		Co.	3,380,394	192,209
Ener	gy (4.1%)				ChampionX Corp.	6,140,698	179,370
	Exxon Mobil Corp.	125,741,000	12,571,585		Noble Corp. plc	3,564,751	171,678
	Chevron Corp.	56,281,472	8,394,944		DT Midstream Inc.	3,052,643	167,285
	ConocoPhillips	37,278,213	4,326,882		PBF Energy Inc.	-,,	,
	Schlumberger NV	44,706,076	2,326,504		Class A	3,441,198	151,275
	EOG Resources Inc.	. 18,314,751	2,215,169	*	Transocean Ltd.	23,281,326	147,836

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
						Sildles	(\$000)
	SM Energy Co.	3,697,875	143,182	*	Diamond Offshore	0.100.000	44 577
	Patterson-UTI	10 100 650	140 000	*	Drilling Inc.	3,198,220	41,577
	Energy Inc.	13,183,653	142,383	*	NOW Inc.	3,493,831	39,550
	Equitrans Midstream Corp.	13,021,268	132,557		Vital Energy Inc.	834,123	37,944
	Antero Midstream	13,021,200	132,337	1	CVR Energy Inc. Crescent Energy Co.	1,101,317	33,370
	Corp.	10,496,458	131,521	·	Class A	2,438,586	32,214
	Arcosa Inc.	1,527,302	126,216	*	Ameresco Inc.	2,400,000	02,214
	California Resources	, - ,	,		Class A	1,012,501	32,066
	Corp.	2,191,357	119,823	*	MRC Global Inc.	2,579,179	28,397
	Magnolia Oil & Gas			1	Comstock		
	Corp. Class A	5,570,494	118,596		Resources Inc.	3,136,753	27,760
	Alpha Metallurgical			1	Atlas Energy		
	Resources Inc.	335,573	113,732		Solutions Inc.		07710
1	New Fortress	2 022 016	110 016		Class A	1,611,422	27,749
*	Energy Inc. Tidewater Inc.	2,923,816	110,316		SunCoke Energy Inc.	2,522,025	27,087
	Northern Oil &	1,507,898	108,735		Core Laboratories Inc.	1,464,154	25,857
	Gas Inc.	2,801,454	103,850	*	ProPetro Holding	1,404,104	25,657
	Helmerich &	2,001,101	100,000		Corp.	3,073,248	25,754
	Payne Inc.	2,833,474	102,628	*	Dril-Quip Inc.	1,087,564	25,308
	Warrior Met Coal Inc.		99,229	*,1	ChargePoint	.,00,,00.	20,000
*	CNX Resources				Holdings Inc.	9,936,424	23,251
	Corp.	4,632,686	92,654	*	Nabors Industries		
	Cactus Inc. Class A	2,037,183	92,488		Ltd.	284,778	23,246
	Arch Resources Inc.	549,420	91,171	1	Kinetik Holdings Inc.		
	Liberty Energy Inc.				Class A	684,135	22,850
	Class A	4,776,711	86,650	*,1	NextDecade Corp.	4,771,090	22,758
	Peabody Energy	0.505.750	05.740	*,1 *	FuelCell Energy Inc.	14,142,790	22,628
	Corp.	3,525,752	85,746	*	REX American	477150	22 560
	Viper Energy Inc. Class A	2,723,497	85,463		Resources Corp. RPC Inc.	477,153	22,569
*,1	Plug Power Inc.	18,864,450	84,890	*	Centrus Energy Corp.	3,025,849	22,028
*	Shoals Technologies	10,004,400	0-1,000		Class A	394,915	21,487
	Group Inc. Class A	5,342,466	83,022	*	SilverBow	00 1,0 10	21,107
*	Array	, , , , , , , , , , , , , , , , , , , ,	, .		Resources Inc.	678,107	19,719
	Technologies Inc.	4,516,733	75,881	*	Bristow Group Inc.		
	CONSOL Energy Inc.	741,722	74,565		Class A	696,250	19,683
	Archrock Inc.	4,689,675	72,221		Select Water		
*	NEXTracker Inc.				Solutions Inc.	0.504.000	40.000
	Class A	1,506,984	70,602	* 1	Class A	2,504,296	19,008
	Oceaneering	0.150.140	67205	*,1 *	Stem Inc.	4,714,276	18,291
*	International Inc.	3,158,148	67,205		TETRA Technologies Inc.	2 620 549	16,410
*	Callon Petroleum Co. Par Pacific	1,930,771	62,557	*	Newpark	3,630,548	10,410
	Holdings Inc.	1,707,225	62,092		Resources Inc.	2,449,089	16,262
	Sitio Royalties Corp.	1,707,223	02,032		Vitesse Energy Inc.	730,922	16,000
	Class A	2,576,671	60,578	*	Montauk	,00,022	.0,000
*	Gulfport Energy	_,_,_,			Renewables Inc.	1,737,042	15,477
	Corp.	403,753	53,780		VAALCO Energy Inc.	3,343,681	15,013
	Delek US				Berry Corp.	1,914,730	13,461
	Holdings Inc.	1,996,486	51,509	*,1	SunPower Corp.	2,745,685	13,262
*	Talos Energy Inc.	3,481,418	49,541	*,1	Tellurian Inc.	17,249,662	13,034
*	Helix Energy				Kodiak Gas		
	Solutions Group Inc.		46,465		Services Inc.	637,940	12,810
* *	Green Plains Inc.	1,777,608	44,831		SandRidge	000 0 15	40 75-
*,1	Fluence Energy Inc.	1,778,892	42,427	1	Energy Inc.	933,349	12,759
	World Kinect Corp.	1,843,525	41,996	1	HighPeak Energy Inc.	884,700	12,598

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
*	Oil States			*,1	ESS Tech Inc.	1,593,000	1,816
	International Inc.	1,847,876	12,547	,.	Ramaco	1,593,000	1,010
1	Ramaco	1,047,070	12,047		Resources Inc.		
	Resources Inc.				Class B	135,153	1,799
	Class A	701,380	12,050	*	Smart Sand Inc.	860,390	1,661
*,1	EVgo Inc. Class A	3,179,153	11,381	*,1	Nine Energy	,	.,
*	DMC Global Inc.	540,379	10,170		Service Inc.	609,231	1,633
	W&T Offshore Inc.	2,896,052	9,441	*	Gulf Island	,	,
*	SEACOR Marine	_,	2,		Fabrication Inc.	358,485	1,552
	Holdings Inc.	735,140	9,255	*	Profire Energy Inc.	830,050	1,502
*	American			*	Mammoth Energy		
	Superconductor				Services Inc.	308,591	1,376
	Corp.	824,756	9,188	*	Ideal Power Inc.	177,061	1,374
*,1	Gevo Inc.	6,871,435	7,971		Energy Services of		
*	Matrix Service Co.	785,548	7,683		America Corp.	200,540	1,199
	Solaris Oilfield			*,1	Flotek Industries Inc.	305,077	1,196
	Infrastructure Inc.			*,1	FTC Solar Inc.	1,574,728	1,091
	Class A	935,530	7,447	1	Enviva Inc.	928,942	925
*	Forum Energy				Adams Resources &		
	Technologies Inc.	324,803	7,201		Energy Inc.	31,232	818
*	Hallador Energy Co.	722,014	6,383	*,1	Stabilis Solutions Inc.		705
*	Amplify Energy Corp.	1,044,290	6,193		Barnwell	,	
	Riley Exploration				Industries Inc.	267,900	651
	Permian Inc.	222,250	6,054	*	PEDEVCO Corp.	768,132	592
	Granite Ridge			*,1	Independence		
	Resources Inc.	1,004,600	6,048		Contract Drilling Inc.	225,114	552
*	Geospace			*,1	Houston American		
	Technologies Corp.	460,675	5,970		Energy Corp.	231,528	414
*,1	Aemetis Inc.	1,111,968	5,827		Mexco Energy Corp.	44,605	407
*,1	ProFrac Holding			*,1	Ocean Power		
	Corp. Class A	655,619	5,560		Technologies Inc.	1,001,472	316
	Evolution Petroleum			*,1	Sunworks Inc.	1,299,138	305
	Corp.	895,061	5,200	*,1	Dawson Geophysical		
*,1	TPI Composites Inc.	1,239,552	5,132		Co.	163,584	299
*	Natural Gas Services			*	Superior Drilling		
	Group Inc.	310,277	4,989		Products Inc.	258,628	185
*,1	Solid Power Inc.	3,190,948	4,627	*,1	Advent Technologies		
	NACCO				Holdings Inc.	760,618	169
	Industries Inc. Class A	101.000	4.410		US Energy Corp.	133,545	134
*		121,068	4,419	*,1	Camber Energy Inc.	332,001	76
	KLX Energy Services Holdings Inc.	389,409	4,385	*	Pineapple Energy Inc.	95,645	57
	Ranger Energy	309,409	4,300	*	NCS Multistage		
	Services Inc.				Holdings Inc.	1,912_	33
	Class A	406,911	4,163				59,767,596
*,1	Ring Energy Inc.	2,669,972	3,898	Fina	ncials (10.8%)		
	PHX Minerals Inc.	1,009,748	3,251	*	Berkshire		
1	Epsilon Energy Ltd.	638,076	3,241		Hathaway Inc.		
*,1	American Resources	000,070	0,241		Class B	55,960,019	19,958,700
, .	Corp.	1,873,823	2,792		JPMorgan Chase &		
*	OPAL Fuels Inc.	1,073,023	2,732		Co.	90,715,286	15,430,670
	Class A	490,434	2,707		Bank of America		
*,1	Empire Petroleum	100, 104	2,707		Corp.	211,026,559	7,105,264
-	Corp.	238,346	2,619		Wells Fargo & Co.	113,959,217	5,609,073
*,1	Beam Global	317,644	2,252		S&P Global Inc.	9,938,743	4,378,215
*	Battalion Oil Corp.	223,426	2,147		Goldman Sachs		
*,1	PrimeEnergy	220,720	۷,۱۳/		Group Inc.	9,380,537	3,618,730
-	Resources Corp.	19,756	2,101		Morgan Stanley	38,628,950	3,602,150
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		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	BlackRock Inc.	4,198,995	3,408,744		Ares Management		
	Charles Schwab	4,130,333	3,400,744		Corp. Class A	5,275,406	627,351
	Corp.	44,500,704	3,061,648		Principal Financial	0,270,100	027,00
	Marsh & McLennan	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,,		Group Inc.	7,512,694	591,024
	Cos. Inc.	15,457,336	2,928,701		Cboe Global		
	Progressive Corp.	18,381,600	2,927,821		Markets Inc.	3,304,755	590,097
	Blackstone Inc.	22,312,200	2,921,113		Huntington		
	Citigroup Inc.	56,307,325	2,896,449		Bancshares Inc.	45,303,021	576,254
	Chubb Ltd.	12,810,982	2,895,282		Berkshire		
	CME Group Inc.	11,295,900	2,378,917		Hathaway Inc. Class A	1,051	570,299
	Intercontinental				FactSet Research	1,051	570,299
	Exchange Inc.	17,952,621	2,305,655		Systems Inc.	1,190,901	568,119
	US Bancorp	48,877,749	2,115,429		Regions Financial	.,,	000,0
	PNC Financial	10 500 040	1 000 000		Corp.	29,191,495	565,731
	Services Group Inc.		1,936,236	*	Markel Group Inc.	394,366	559,960
	Moody's Corp.	4,878,274	1,905,259		LPL Financial		
	Aon plc Class A KKR & Co. Inc.	5,972,498	1,738,116		Holdings Inc.	2,370,573	539,590
	Truist Financial Corp.	20,867,825 41,889,412	1,728,899 1,546,557		Northern Trust Corp.	6,168,982	520,539
	Arthur J Gallagher &	41,000,412	1,040,007		Brown & Brown Inc.	7,177,212	510,372
	Co.	6,789,146	1,526,743		Cincinnati Financial		
	Aflac Inc.	18,328,770	1,512,124		Corp.	4,916,035	508,613
	American	.0,020,770	.,0.2,.2		Everest Group Ltd.	1,360,655	481,100
	International				Citizens Financial	10 000 077	450.006
	Group Inc.	22,029,284	1,492,484		Group Inc.	13,880,377	459,996
	Travelers Cos. Inc.	7,181,982	1,368,096		First Citizens BancShares Inc.		
	MSCI Inc. Class A	2,355,676	1,332,488		Class A	316,931	449,716
	Bank of New York				W R Berkley Corp.	6,054,434	428,170
	Mellon Corp.	24,131,039	1,256,021		KeyCorp	29,488,147	424,629
	Ameriprise	0 470 574	4 004 070		Fidelity National	., ,	,
	Financial Inc.	3,170,574	1,204,279		Financial Inc.	8,095,927	413,054
	Prudential Financial Inc.	11,329,886	1,175,022		Loews Corp.	5,566,684	387,386
	Apollo Global	11,323,000	1,173,022		Equitable		
	Management Inc.	12,495,132	1,164,421		Holdings Inc.	10,622,456	353,728
	MetLife Inc.	17,438,256	1,153,192		MarketAxess	4 400 070	0.40.004
	Allstate Corp.	8,215,350	1,149,985		Holdings Inc.	1,193,070	349,391
	Discover Financial				Globe Life Inc.	2,792,645	339,921
	Services	7,866,556	884,201		Reinsurance Group of America Inc.	2,070,383	334,947
*	Coinbase Global Inc.				Tradeweb	2,070,000	004,047
	Class A	4,824,495	839,076		Markets Inc.		
*	Arch Capital Group	11 110 040	005.050		Class A	3,597,954	326,982
	Ltd.	11,112,943	825,358		Carlyle Group Inc.	7,976,682	324,571
	Willis Towers Watson plc	3,250,003	783,901		RenaissanceRe		
	Broadridge Financial	3,250,003	765,901		Holdings Ltd.	1,653,901	324,165
	Solutions Inc.	3,695,680	760,386		East West		
	Hartford Financial	0,000,000	700,000		Bancorp Inc.	4,433,484	318,989
	Services Group Inc.	9,432,663	758,197		Annaly Capital	15.050.050	207070
	T. Rowe Price				Management Inc.	15,853,352	307,079
	Group Inc.	7,016,831	755,643		Ally Financial Inc.	8,469,124	295,742
	Nasdaq Inc.	12,711,425	739,042		Assurant Inc. Webster Financial	1,660,179	279,724
	Fifth Third Bancorp	21,385,315	737,580		Corp.	5,423,284	275,286
	State Street Corp.	9,225,900	714,638	*,1	SoFi	3,120,204	2,0,200
	M&T Bank Corp.	5,208,043	713,919		Technologies Inc.	27,222,334	270,862
	Raymond James	E 000 000	057544		Erie Indemnity Co.		
	Financial Inc.	5,896,988	657,514		Class A	799,295	267,700

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	American Financial			-	Wintrust Financial		
	Group Inc. Interactive Brokers	2,229,453	265,060		Corp. Columbia Banking	1,912,930	177,424
	Group Inc. Class A	3,178,400	263,489		System Inc.	6,542,542	174,555
	Franklin				Cadence Bank	5,763,236	170,534
	Resources Inc.	8,586,125	255,781		MGIC Investment		
	First Horizon Corp.	17,528,794	248,208		Corp.	8,750,300	168,793
	Invesco Ltd.	13,771,835	245,690		Essent Group Ltd.	3,138,176	165,507
*	Voya Financial Inc. Robinhood	3,310,981	241,569		Synovus Financial Corp.	4,364,048	164,306
	Markets Inc.				United	, ,	, , , , , ,
	Class A	18,634,684	237,406		Bankshares Inc.	4,241,350	159,263
	Unum Group	5,206,991	235,460		Rithm Capital Corp.	14,886,706	158,990
	SEI Investments Co. Old Republic	3,661,513	232,689	*,1	Marathon Digital Holdings Inc.	6,679,783	156,908
	International Corp.	7,903,704	232,369		Affiliated Managers		
	Kinsale Capital				Group Inc.	1,033,290	156,461
	Group Inc.	691,796	231,689		Old National Bancorp	9,180,985	155,067
	Comerica Inc.	4,123,000	230,105		FNB Corp.	11,244,311	154,834
	Morningstar Inc.	803,775	230,073		Corebridge Financial Inc.	6,913,340	149,743
	Primerica Inc. New York	1,095,602	225,431		Valley National	0,913,340	143,743
	Community				Bancorp	13,572,293	147,395
	Bancorp Inc.	21,421,737	219,144		Home	,	,
	Western Alliance		•		BancShares Inc.	5,785,274	146,541
	Bancorp	3,260,585	214,514		Glacier Bancorp Inc.	3,490,659	144,234
	Blue Owl Capital Inc.				Lincoln National		
	Class A	14,356,656	213,914		Corp.	5,310,535	143,225
	Stifel Financial Corp.	3,016,293	208,577		SLM Corp.	7,222,660	138,097
1	AGNC Investment	00 040 110	00F 404		Radian Group Inc.	4,727,530	134,971
	Corp.	20,946,116	205,481		American Equity		
	Zions Bancorp NA SouthState Corp.	4,647,119	203,869		Investment Life Holding Co.	2,415,443	134,782
	Pinnacle Financial	2,382,493	201,202	*	Ryan Specialty	2,410,440	104,702
	Partners Inc.	2,302,546	200,828		Holdings Inc.		
	Commerce	, ,	, .		Class A	3,128,426	134,585
	Bancshares Inc.	3,731,621	199,306		Axis Capital Holdings		
	First American				Ltd.	2,400,377	132,909
	Financial Corp.	3,073,507	198,057		FirstCash Holdings Inc.	1,212,666	131,441
	Cullen/Frost Bankers Inc.	1,817,890	197,223		First Financial	1,212,000	131,441
	Houlihan Lokey Inc.	1,017,030	197,223		Bankshares Inc.	4,269,541	129,367
	Class A	1,628,749	195,303	*	Mr Cooper		
1	Starwood Property				Group Inc.	1,969,975	128,285
	Trust Inc.	9,281,318	195,093		Jackson Financial Inc. Class A	2,486,629	127,315
	Prosperity Bancshares Inc.	2,796,395	189,400		Assured Guaranty	2,400,023	127,515
	Selective Insurance	2,790,395	169,400		Ltd.	1,678,489	125,601
	Group Inc.	1,902,285	189,239		Hamilton Lane Inc.	,	.,
	Jefferies Financial	.,,	,		Class A	1,103,726	125,207
	Group Inc.	4,637,688	187,409		Janus Henderson		
	Popular Inc.	2,269,437	186,253		Group plc	4,132,505	124,595
	OneMain	0 700	405 :		Hancock Whitney Corp.	2 562 770	124 574
	Holdings Inc.	3,769,704	185,469		Hanover Insurance	2,563,770	124,574
	Evercore Inc. Class A		183,105		Group Inc.	1,010,971	122,752
	RLI Corp.	1,354,950	180,371		Moelis & Co. Class A	2,134,419	119,805
	Bank OZK	3,578,146	178,299	*	Enstar Group Ltd.	404,319	119,011
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		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
-	Lazard Ltd. Class A	3,363,039	117,034		Fulton Financial Corp.	5,203,897	85,656
	White Mountains Insurance Group	3,303,039	117,034		CVB Financial Corp. BGC Group Inc.	4,241,821	85,642
	Ltd.	76,901	115,737		Class A	11,775,831	85,021
1	Ameris Bancorp Blackstone Mortgage	2,098,444	111,322	*	Clearwater Analytics Holdings Inc.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	33,32
	Trust Inc. Class A	5,198,296	110,568		Class A	3,948,529	79,089
*	Walker & Dunlop Inc. Brighthouse	986,437	109,504	*	NMI Holdings Inc. Class A	2,611,555	77,511
	Financial Inc. United Community	2,061,205	109,079		BankUnited Inc. Seacoast Banking	2,388,475	77,458
	Banks Inc. ServisFirst	3,555,927	104,046		Corp. of Florida Simmons First	2,695,122	76,703
	Bancshares Inc.	1,544,023	102,878		National Corp.		
	UMB Financial Corp.	1,226,359	102,462		Class A	3,802,363	75,439
*	Texas Capital	.,,	,	1	Arbor Realty		·
	Bancshares Inc. Cathay General	1,512,894	97,778		Trust Inc. Eastern	4,834,620	73,390
	Bancorp	2,176,762	97.018		Bankshares Inc.	5,005,394	71,077
*,1	Riot Platforms Inc. Associated	6,210,523	96,077		PennyMac Financial Services Inc.	802,766	70,940
	Banc-Corp	4.470.347	95,621		PJT Partners Inc.		
	International		•		Class A	694,322	70,731
	Bancshares Corp.	1,759,816	95,593		First Merchants Corp.	1,857,218	68,866
	CNO Financial				WaFd Inc.	2,057,503	67,815
	Group Inc.	3,421,522	95,460		First Financial		
	Artisan Partners				Bancorp	2,817,524	66,916
	Asset				Towne Bank	2,122,686	63,171
	Management Inc.				BOK Financial Corp.	736,866	63,113
	Class A	2,122,843	93,787	*	StoneX Group Inc.	828,785	61,189
	Piper Sandler Cos.	535,561	93,654		Park National Corp.	457,960	60,845
	Kemper Corp.	1,921,292	93,509	*	Bancorp Inc.	1,562,705	60,258
*	Genworth			*,1	Rocket Cos. Inc.		
	Financial Inc. Class A	12 006 006	02 221		Class A	4,074,451	58,998
		13,806,986	92,231		NBT Bancorp Inc.	1,401,918	58,754
* 4	First Hawaiian Inc.	4,029,346	92,111		Cohen & Steers Inc.	770,629	58,360
*,1	Upstart Holdings Inc.		91,438		Banner Corp.	1,079,019	57,792
_	Axos Financial Inc.	1,662,755	90,786		Virtu Financial Inc.		
	Bank of Hawaii Corp.	1,250,932	90,643		Class A	2,823,145	57,197
	First Interstate BancSystem Inc.	0.000.700	00.007		OFG Bancorp Independent Bank	1,510,460	56,612
	Class A	2,939,739	90,397		Group Inc.	1,110,951	56,525
	TPG Inc. Class A	2,072,871	89,486	*	Triumph Financial Inc.	701,794	56,270
	WSFS Financial Corp.	1,938,156	89,019		Renasant Corp.	1,669,901	56,242
	Federated				BancFirst Corp.	576,481	56,109
	Hermes Inc. Class B	2 614 202	00 500		WesBanco Inc.	1,776,472	55,728
		2,614,392	88,523	1	Ready Capital Corp.	5,389,324	55,241
	Community Bank System Inc.	1,688,469	87,986		StepStone Group Inc.		
	Pacific Premier	1,000,403	67,360		Class A	1,695,189	53,958
	Bancorp Inc.	3,013,123	87,712		Banc of California Inc.	3,978,554	53,432
	Independent Bank	0,010,120	07,712		Virtus Investment		
	Corp.	1,327,970	87,394		Partners Inc.	215,598	52,123
	First Bancorp	5,272,270	86,729		Apollo Commercial		
	Atlantic Union	5,2,2,2,0	55,725		Real Estate		
	Bankshares Corp.	2,368,116	86,531		Finance Inc.	4,416,882	51,854
*	Credit Acceptance	2,000,110	23,001		Federal Agricultural		
	Corp.	161,035	85,788		Mortgage Corp. Class C	270,904	51,802

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Hilltop Holdings Inc. Stewart Information	1,437,585	50,617	*	Palomar Holdings Inc.	734,361	40,757
	Services Corp. Claros Mortgage	852,559	50,088		Provident Financial Services Inc.	2,230,718	40,220
	Trust Inc.	3,665,552	49,961		Safehold Inc.	1,659,651	38,836
	Northwest Bancshares Inc.	3,989,936	49,794		S&T Bancorp Inc. Stellar Bancorp Inc.	1,140,060 1,365,491	38,101 38,015
	Enterprise Financial	0,000,000	10,701		Veritex Holdings Inc.	1,607,760	37,413
	Services Corp. Lakeland Financial	1,103,275	49,261	*	Cannae Holdings Inc.	1,883,947	36,756
*	Corp. Goosehead	752,901	49,059		Chimera Investment Corp. Sandy Spring	7,339,545	36,624
	Insurance Inc.				Bancorp Inc.	1,325,600	36,109
	Class A	645,903	48,959		Peoples Bancorp Inc.	1,058,510	35,735
	First Commonwealth Financial Corp.	3,163,276	48,841		MFA Financial Inc.	3,141,703	35,407
	City Holding Co.	437,529	48,242	Ŷ	Encore Capital Group Inc.	680,681	34,545
*	Customers Bancorp Inc.	835,298	48,130		Nelnet Inc. Class A	390,170	34,421
*	BRP Group Inc.	030,230	40,130		Safety Insurance	440.006	04 101
	Class A	1,998,235	47,998	*	Group Inc. SiriusPoint Ltd.	449,806 2,946,652	34,181 34,181
	Live Oak Bancshares Inc.	1,034,676	47,078		BrightSpire	2,0 .0,002	0.,.0.
	Trustmark Corp.	1,687,931	47,078		Capital Inc. Class A	4,543,526	33,804
	Navient Corp.	2,513,015	46,792		Employers Holdings Inc.	848,434	33,428
*	Enova International Inc.	042.065	46 700		Franklin BSP Realty	- 10,10	
	First Bancorp (XNGS)	843,965 1,237,620	46,722 45,804	*	Trust Inc.	2,472,504	33,404
	Westamerica				Skyward Specialty Insurance		
	Bancorp	791,697	44,660		Group Inc.	985,265	33,381
	FB Financial Corp. Pathward	1,116,367	44,487		TriCo Bancshares Origin Bancorp Inc.	765,759	32,905
	Financial Inc. National Bank	839,479	44,434		Mercury General Corp.	913,084 867,129	32,478 32,353
	Holdings Corp.	1 170 604	40.610		Berkshire Hills	007,120	02,000
*	Class A Oscar Health Inc.	1,172,694	43,612		Bancorp Inc. Nicolet	1,296,581	32,194
	Class A Horace Mann	4,685,148	42,869		Bankshares Inc.	393,817	31,694
	Educators Corp.	1,309,876	42,833		OceanFirst Financial Corp.	1,779,868	30,898
	Hope Bancorp Inc.	3,494,977	42,219	*	PRA Group Inc.	1,170,822	30,676
	Heartland Financial USA Inc.	1,120,449	42,140		QCR Holdings Inc.	514,779	30,058
	Stock Yards	1,120,445	42,140	*,1 1	Trupanion Inc. ARMOUR Residential	981,307	29,940
	Bancorp Inc. Compass Diversified	818,043	42,121		REIT Inc.	1,541,014	29,772
	Holdings Two Harbors	1,867,334	41,922	1	Ellington Financial Inc.	2,341,448	29,760
	Investment Corp.	2,970,456	41,378		Dime Community Bancshares Inc.	1,101,151	29,654
	PennyMac Mortgage Investment Trust	2,763,682	41,317	*	LendingClub Corp.	3,283,854	28,701
	Victory Capital	2,703,002	41,517		Eagle Bancorp Inc.	951,714	28,685
	Holdings Inc.	1 100 000	44.000		Enact Holdings Inc. Southside	988,708	28,564
	Class A First Busey Corp.	1,198,838 1,657,232	41,288 41,132		Bancshares Inc.	911,789	28,557
	Ladder Capital Corp.	1,007,202	41,102		AMERISAFE Inc.	609,096	28,493
	Class A	3,555,544	40,924		Preferred Bank National Western Life	389,302	28,438
					Group Inc. Class A	58,275	28,148

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	D 11:	Ondros	(ψοσο)		A 1	Onarco	(Φ000)
	Brookline Bancorp Inc.	2,542,527	27,739		Amalgamated Financial Corp.	689,657	18,579
	Lakeland	2,542,527	21,739		Merchants Bancorp	434,604	18,505
	Bancorp Inc.	1,862,506	27,546		Farmers National	434,004	10,505
	ConnectOne	1,002,000	27,040		Banc Corp.	1,273,130	18,397
	Bancorp Inc.	1,192,696	27,325		Byline Bancorp Inc.	777,481	18,317
	German American	.,.02,000	27,020		Great Southern	777,401	10,517
	Bancorp Inc.	840,496	27,240		Bancorp Inc.	302,904	17,977
*,1	Lemonade Inc.	1,674,937	27,017		Mercantile Bank	002,00	.,,.,
	WisdomTree Inc.	3,780,368	26,198		Corp.	445,144	17,975
	Redwood Trust Inc.	3,489,302	25,856		Washington Trust	-,	,-
	Premier Financial	.,,	-,		Bancorp Inc.	552,876	17,902
	Corp.	1,072,357	25,844	1	Orchid Island		
	First Bancshares Inc.	874,751	25,656		Capital Inc.	2,091,609	17,632
	Capitol Federal			*	Metropolitan Bank		
	Financial Inc.	3,952,960	25,497		Holding Corp.	311,071	17,227
	TFS Financial Corp.	1,714,510	25,186		TrustCo Bank Corp.	550,930	17,106
1	F&G Annuities &				Heritage Commerce		
	Life Inc.	544,128	25,030		Corp.	1,711,952	16,983
*	Open Lending Corp.	2,935,132	24,978		Midland States		
	New York Mortgage				Bancorp Inc.	614,037	16,923
	Trust Inc.	2,825,845	24,104	*	Columbia	070.004	40.047
	Bank First Corp.	277,228	24,025		Financial Inc.	872,234	16,817
	Heritage Financial				Kearny Financial	1 071 000	16 704
	Corp.	1,102,412	23,581		Corp.	1,871,083	16,784
	Amerant				HarborOne Bancorp Inc.	1,385,460	16,598
	Bancorp Inc.	051 004	00.074		Southern Missouri	1,305,400	10,556
	Class A	951,334	23,374		Bancorp Inc.	310,151	16,559
	1st Source Corp.	425,256	23,368	*	CrossFirst	010,101	10,000
	First Mid Bancshares Inc.	671,439	23,272		Bankshares Inc.	1,202,409	16,329
*	Ambac Financial	071,439	23,272		Horizon Bancorp Inc.	1,130,130	16,172
	Group Inc.	1,386,506	22,850		Northfield	.,.00,.00	.0,.,2
	ProAssurance Corp.	1,647,124	22,714		Bancorp Inc.	1,279,932	16,102
	Community Trust	1,047,124	22,717		Central Pacific		,
	Bancorp Inc.	515,007	22,588		Financial Corp.	801,026	15,764
1	UWM Holdings Corp.	0.0,007	22,000		First Community		
	Class A	3,092,429	22,111		Bankshares Inc.	423,255	15,703
	Dynex Capital Inc.	1,723,960	21,584		Independent Bank		
	Old Second				Corp. (Michigan)	599,260	15,593
	Bancorp Inc.	1,367,182	21,109		Cambridge Bancorp	222,214	15,422
	Tompkins Financial				Camden National		45 470
	Corp.	345,569	20,814		Corp.	403,181	15,172
1	HCI Group Inc.	225,301	19,691		First Foundation Inc.	1,567,086	15,169
	KKR Real Estate				Equity Bancshares Inc.		
	Finance Trust Inc.	1,451,080	19,198		Class A	443,588	15,038
*	AssetMark Financial	0.40.00=	40.404		American National	443,300	15,036
	Holdings Inc.	640,865	19,194		Bankshares Inc.	302,173	14,731
	Brightsphere				Peapack-Gladstone	002,170	,,, .
	Investment Group Inc.	981,747	18,810		Financial Corp.	493,833	14,726
	Hanmi Financial	551,747	10,010		HomeTrust	,	, -
	Corp.	968,596	18,791		Bancshares Inc.	539,258	14,517
	Business First	555,555	10,701		Diamond Hill	•	
	Bancshares Inc.	759,255	18,716		Investment		
	Univest Financial	/	-7		Group Inc.	87,521	14,493
	Corp.	848,090	18,683		United Fire		
					Group Inc.	714,514	14,376

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	EZCORP Inc. Class A	1,624,375	14,197		Crawford & Co.		
	Republic	1,02 1,070	11,107		Class B	747,804	9,781
	Bancorp Inc.	252.702	12.000		Financial	4E0 E70	0.507
	Class A	253,793	13,999		Institutions Inc.	450,573	9,597
*	P10 Inc. Class A	1,343,205	13,728		Orrstown Financial Services Inc.	224 406	0.572
	Coastal Financial	200 270	10.005		Granite Point	324,496	9,573
	Corp. Flushing Financial	308,378	13,695		Mortgage Trust Inc.	1,592,579	9,460
	Corp.	829,310	13,667		Capstar Financial	1,552,575	3,400
	Shore	023,310	13,007		Holdings Inc.	501,635	9,401
	Bancshares Inc.	944,911	13,465		Summit Financial	001,000	0,101
	Metrocity	011,011	10, 100		Group Inc.	304,535	9,346
	Bankshares Inc.	558,211	13,408		Citizens & Northern	,	-,
	CNB Financial Corp.	588,697	13,299		Corp.	410,526	9,208
	Universal Insurance	000,007	.0,200		Civista		
	Holdings Inc.	826,787	13,212		Bancshares Inc.	497,943	9,182
	First Financial Corp.	303,927	13,078		Mid Penn		
	GCM Grosvenor Inc.		-,-		Bancorp Inc.	374,344	9,089
	Class A	1,437,229	12,878	*	Southern California		
1	Burke & Herbert				Bancorp	523,200	9,078
	Financial Services				Sierra Bancorp	399,592	9,011
	Corp.	202,900	12,762		First of Long Island		
	Tiptree Inc. Class A	651,681	12,356		Corp.	676,836	8,961
*	World Acceptance			*	Greenlight Capital Re		
	Corp.	94,353	12,316		Ltd. Class A	776,574	8,868
	Bar Harbor				First Bancorp Inc.	312,385	8,815
	Bankshares	412,183	12,102		West Bancorp Inc.	414,402	8,785
1	B. Riley Financial Inc.	573,323	12,034		Peoples Financial	470.005	0.704
	Alerus Financial Corp.	537,268	12,029		Services Corp.	179,285	8,731
	Arrow Financial Corp.	425,176	11,879		FS Bancorp Inc.	235,608	8,708
	TPG RE Finance	4 047444	44.044		Home Bancorp Inc.	206,339	8,668
	Trust Inc.	1,817,114	11,811		Primis Financial Corp.	682,667	8,643
1	Invesco Mortgage	1 224 022	11 700		Waterstone	604.050	0.500
1	Capital Inc.	1,324,933	11,739		Financial Inc. Citizens Financial	604,252	8,580
	NewtekOne Inc.	847,975	11,702		Services Inc.	131,902	8,537
	Capital City Bank Group Inc.	397,180	11,689		James River Group	101,002	0,007
	Northeast Bank	206,474	11,395		Holdings Ltd.	921,185	8,512
	First Bank	770,907	11,332		South Plains		-,-:-
	ACNB Corp.	240,241	10,753		Financial Inc.	292,506	8,471
*,1	Forge Global	240,241	10,730		MBIA Inc.	1,382,103	8,458
	Holdings Inc.	3,118,181	10,695		First Business		
*	Carter	., .,	-,		Financial		
	Bankshares Inc.	712,025	10,659		Services Inc.	210,016	8,422
*	LendingTree Inc.	347,613	10,540		Codorus Valley		
	Macatawa Bank				Bancorp Inc.	327,297	8,412
	Corp.	925,613	10,441	*	Southern First		
	Hingham Institution				Bancshares Inc.	226,710	8,411
	For Savings	53,653	10,430		RBB Bancorp	440,333	8,384
	SmartFinancial Inc.	423,631	10,375		Unity Bancorp Inc.	282,715	8,366
	Esquire Financial				Farmers &		
	Holdings Inc.	206,705	10,327		Merchants Bancorp Inc.	333,453	8,270
	Northrim	170.010	10 101		Guaranty	000,400	5,270
	Bancorp Inc.	176,916	10,121		Bancshares Inc.	245,483	8,253
	Bank of Marin Bancorp	447,868	0 062		Enterprise	,	2,230
	BayCom Corp.	415,597	9,862 9,804		Bancorp Inc.	255,668	8,248
	BayCom Corp.	413,337	3,004		•		

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
1	NexPoint Diversified				National		
	Real Estate Trust	1,031,167	8,198		Bankshares Inc.	192,376	6,223
	MidWestOne				Parke Bancorp Inc.	306,015	6,197
	Financial Group Inc.	298,754	8,039		ChoiceOne Financial		
	Donegal Group Inc.				Services Inc.	210,670	6,173
	Class A	562,139	7,864		AG Mortgage		
	John Marshall				Investment		
	Bancorp Inc.	346,600	7,819		Trust Inc.	965,155	6,129
*	Bridgewater				Investors Title Co.	37,598	6,096
	Bancshares Inc.	574,377	7,766		Bankwell Financial		
	Fidelity D&D				Group Inc.	201,545	6,083
	Bancorp Inc.	132,823	7,708	1	Sachem Capital Corp.	1,619,896	6,058
	Five Star Bancorp	293,908	7,694	*	Ponce Financial		
	Norwood Financial				Group Inc.	620,432	6,055
	Corp.	233,197	7,675		Capital Bancorp Inc.	250,159	6,054
	Timberland				Southern States		
	Bancorp Inc.	242,733	7,636		Bancshares Inc.	206,492	6,046
*	Blue Foundry			*	Sterling Bancorp Inc.	1,047,247	6,043
	Bancorp	782,802	7,570		First Internet		
1	Chicago Atlantic Real				Bancorp	247,933	5,997
	Estate Finance Inc.	466,820	7,553		LINKBANCORP Inc.	752,326	5,996
	Middlefield Banc		7500	*	Ocwen Financial		
	Corp.	232,314	7,520		Corp.	193,274	5,945
	Central Valley				Greene County		
	Community	005.044	7.400		Bancorp Inc.	210,368	5,932
	Bancorp	335,244	7,493		Regional		
	PCB Bancorp	401,511	7,400		Management Corp.	234,220	5,874
_	Colony Bankcorp Inc.	550,804	7,326		MainStreet		
Ĵ	FVCBankcorp Inc.	514,940	7,312		Bancshares Inc.	235,247	5,836
	Third Coast	007475	7000		Silvercrest Asset		
	Bancshares Inc.	367,175	7,296		Management	000 440	E 047
	Oak Valley Bancorp	239,900	7,185		Group Inc. Class A	330,416	5,617
	Red River	107740	7100		Northeast		
	Bancshares Inc.	127,746	7,168		Community	315,219	5,592
	eHealth Inc.	816,369	7,119		Bancorp Inc. BCB Bancorp Inc.	430,285	5,532
	Plumas Bancorp	168,907	6,984		HomeStreet Inc.		
1	Medallion Financial	600 006	6.005			535,464	5,515
	Corp.	698,986	6,885		First Community	254 072	5,487
	Princeton	101 600	6 000	*	Corp. California Bancorp	254,872	5,430
	Bancorp Inc. MVB Financial Corp.	191,688 303,098	6,882 6,838		Chemung Financial	219,318	5,450
		99,227			Corp.	107,126	5,335
	C&F Financial Corp.	99,227	6,766		LCNB Corp.	335,831	5,335
	Orange County	111 022	6 727		Peoples Bancorp of	333,031	5,290
	Bancorp Inc.	111,832	6,737		North Carolina Inc.	172,294	5,202
	Virginia National Bankshares Corp.	195,778	6,731		Evans Bancorp Inc.	164,147	5,202
	Oppenheimer	193,776	0,731		ESSA Bancorp Inc.		5,170
	Holdings Inc.				Meridian Corp.	257,669 367,884	
	Class A	158,975	6,569	*,1			5,114
1	AFC Gamma Inc.	544,493	6,550	1	Hagerty Inc. Class A	651,800	5,084
	Ames National Corp.	304,055	6,489	'	Angel Oak Mortgage REIT Inc.	472,039	5,004
	HBT Financial Inc.	305,390	6,447	*	Pioneer Bancorp Inc.		
	Seven Hills Realty	303,330	0,447		· ·	497,336	4,978
	Trust	482,900	6,249		Investar Holding	331,586	4,944
	Western New	-02,000	0,240	*	Corp. Provident	331,300	4,544
	England				Bancorp Inc.	470,772	4,741
	Bancorp Inc.	692,944	6,236	*	Heritage Insurance	4/0,//2	4,741
	1 -	,-	,		Holdings Inc.	724,037	4,721
						,00,	1,721

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
-	OD D			-		Ondres	(ФООО)
*	OP Bancorp	427,154	4,677		Union Bankshares Inc.	92,353	2,831
	NI Holdings Inc.	346,693	4,504	*,1	OppFi Inc.	92,333 543,794	2,784
*	First United Corp.	188,849	4,440	*	Security National	545,734	2,704
	First Western Financial Inc.	222,640	4,415		Financial Corp.		
	Penns Woods	222,040	4,415		Class A	308,551	2,777
	Bancorp Inc.	190,732	4,293		First Savings		_,
*,1	American Coastal	100,702	1,200		Financial Group Inc.	159,427	2,678
	Insurance Corp.	440,681	4,169		Franklin Financial		
	Hawthorn	,	.,		Services Corp.	82,388	2,599
	Bancshares Inc.	164,209	4,166		Finward Bancorp	101,400	2,535
	Eagle Bancorp	,	,		Territorial		
	Montana Inc.	257,546	4,067		Bancorp Inc.	226,146	2,522
*,1	Bakkt Holdings Inc.	1,805,265	4,026	*,1	SWK Holdings Corp.	138,755	2,432
	Bank7 Corp.	146,279	4,001	*	ACRES Commercial		
	First Northwest				Realty Corp.	245,355	2,360
	Bancorp	246,872	3,935	*,3	1895 Bancorp of		
*	Heritage Global Inc.	1,401,176	3,895		Wisconsin Inc.	331,179	2,291
	William Penn			*	USCB Financial		
	Bancorp	318,150	3,885		Holdings Inc.	185,252	2,269
*	Velocity Financial Inc.	225,504	3,883		Provident Financial		
	Guild Holdings Co.				Holdings Inc.	178,916	2,256
	Class A	272,500	3,840		Summit State Bank	181,477	2,178
*	ECB Bancorp Inc.	306,402	3,836		Old Point Financial		
	Federal Agricultural				Corp.	119,700	2,122
	Mortgage Corp.				TC Bancshares Inc.	151,263	2,071
	Class A	24,386	3,832		First Guaranty	407077	4 000
	Nexpoint Real Estate				Bancshares Inc.	167,977	1,868
	Finance Inc.	241,453	3,803		Lument Finance Trust Inc.	700 440	1 062
*,1	Citizens Inc. Class A	1,402,435	3,773	*,1	Dave Inc.	799,449	1,863
*	Oportun Financial		0.754	*		214,024	1,795
	Corp.	960,206	3,754		NSTS Bancorp Inc.	186,636	1,752
	Great Ajax Corp.	691,162	3,663		Broadway Financial Corp.	264,266	1,752
	Riverview	E71 7E0	2.650		Associated Capital	204,200	1,752
*,1	Bancorp Inc.	571,750	3,659		Group Inc. Class A	48,920	1,747
, .	Hippo Holdings Inc.	399,918	3,647	*,1	SR Bancorp Inc.	174,600	1,669
	First National Corp.	165,138	3,592	*	Catalyst Bancorp Inc.	151,200	1,639
	Westwood Holdings Group Inc.	277,674	3,490	*	Finance of America	101,200	1,000
1	Cherry Hill Mortgage	277,074	3,430		Cos. Inc. Class A	1,481,602	1,630
•	Investment Corp.	845,975	3,418		Blue Ridge	.,,	.,
*	loanDepot Inc.	040,070	0,410		Bankshares Inc.	525,645	1,593
	Class A	961,855	3,386		First Capital Inc.	56,504	1,542
*	Maiden Holdings Ltd.		3,380	*,1	GoHealth Inc.		
	BankFinancial Corp.	328,418	3,370		Class A	103,499	1,381
*	Luther Burbank Corp.	304,937	3,266		Manhattan Bridge		
	First Financial	00.,007	0,200		Capital Inc.	262,659	1,305
	Northwest Inc.	230,131	3,102	*	Great Elm Group Inc.	643,568	1,249
1	Ellington Residential		-,	1	Hennessy		
	Mortgage REIT	486,682	2,983		Advisors Inc.	185,534	1,245
	United Security		•		AmeriServ		
	Bancshares	353,209	2,970		Financial Inc.	351,357	1,137
*,1	Consumer Portfolio	*	•	*,1	NeuroOne Medical		
	Services Inc.	316,832	2,969		Technologies Corp.	712,451	1,126
1	BV Financial Inc.	207,878	2,948		US Global		
*	Finwise Bancorp	200,082	2,863		Investors Inc.	076 070	1 000
*,1	Caret Holdings Inc.				Class A	376,672	1,062
	Class A	270,892	2,839				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Nicholas	0110100	(\$000)	-	UnitedHealth	0110100	(\$000)
,,	Financial Inc.	148,305	1,013		Group Inc.	29,032,311	15,284,641
*	Bogota Financial	140,303	1,013		Johnson & Johnson	75,569,538	11,844,769
	Corp.	117,122	942		Merck & Co. Inc.	79,570,231	8,674,747
*	Kingsway Financial	117,122	012		AbbVie Inc.	55,427,844	8,589,653
	Services Inc.	110,758	930		Thermo Fisher	33,427,044	0,000,000
	Hanover Bancorp Inc.		924		Scientific Inc.	12,126,517	6,436,634
	Bayfirst Financial	,			Abbott Laboratories	54,507,932	5,999,688
	Corp.	65,679	851			177,271,872	5,103,657
	MarketWise Inc.	304,854	832		Amgen Inc.	16,803,951	4,839,874
	Bank of the James				Danaher Corp.	20,879,269	4,830,210
	Financial Group Inc.	66,294	798	*	Intuitive Surgical Inc.	11,062,748	3,732,129
*,1	Doma Holdings Inc.	164,352	761		Elevance Health Inc.	7,379,960	3,480,094
*,1	Curo Group Holdings				Medtronic plc	41,766,386	3,440,715
	Corp.	735,347	588	*	Vertex	41,700,000	0,440,710
*	Lake Shore				Pharmaceuticals Inc	8 093 235	3,293,056
	Bancorp Inc.	49,379	577		Bristol-Myers Squibb	. 0,000,200	0,200,000
*,1	Daxor Corp.	47,328	454		Co.	63,874,220	3,277,386
*	PB Bankshares Inc.	34,141	428		Stryker Corp.	10,738,705	3,215,813
*	Kingstone Cos. Inc.	193,591	412		Gilead Sciences Inc.	39,139,396	3,170,682
*	BM Technologies Inc.	196,926	404	*	Regeneron	,:,	-,,
*	Patriot National				Pharmaceuticals Inc	. 3,196,827	2,807,741
	Bancorp Inc.	101,605	389		Cigna Group	9,190,550	2,752,110
*	Ashford Inc.	104,740	385	*	Boston Scientific	.,,	, . ,
*	Siebert Financial				Corp.	46,026,637	2,660,800
	Corp.	188,535	317		Zoetis Inc. Class A	12,973,759	2,560,631
	Safeguard				Becton Dickinson &		
	Scientifics Inc.	385,500	302		Co.	9,121,263	2,224,038
*,1	Bitcoin Depot Inc.	83,372	269		Humana Inc.	3,867,859	1,770,745
*	Carver Bancorp Inc.	133,111	262		HCA Healthcare Inc.	6,305,635	1,706,809
	Village Bank & Trust			*	Dexcom Inc.	12,125,470	1,504,650
,	Financial Corp.	5,610	224	*	Edwards		
	OptimumBank	F0 000	220		Lifesciences Corp.	19,055,067	1,452,949
*	Holdings Inc.	53,069	220	*	IDEXX		
	BioRestorative Therapies Inc.	100,161	171		Laboratories Inc.	2,610,285	1,448,839
	Texas Community	100,101	17.1	*	IQVIA Holdings Inc.	5,730,084	1,325,827
	Bancshares Inc.	9,328	131		Agilent		
	First Seacoast	0,020	101		Technologies Inc.	9,185,699	1,277,088
	Bancorp	17,374	131	*	Centene Corp.	16,797,712	1,246,558
	Atlantic American	,		*	Biogen Inc.	4,558,606	1,179,630
	Corp.	30,638	73	*	Moderna Inc.	10,801,509	1,074,210
*,1	CXApp Inc.	50,571	65		GE HealthCare	40 405 570	007540
*	FG Financial				Technologies Inc.	12,125,570	937,549
	Group Inc.	35,157	55		West Pharmaceutical Services Inc.		010.051
*	Vericity Inc.	3,536	40			2,325,488	818,851
*	Generations Bancorp				Zimmer Biomet	6 550 400	798,279
	NY Inc.	3,634	37	*	Holdings Inc.	6,559,400	790,279
*	SHF Holdings Inc.	20,499	29		Veeva Systems Inc. Class A	4,135,783	796,221
*	CaliberCos Inc.				ResMed Inc.	4,617,511	794,304
	Class A	7,900	10		Cardinal Health Inc.	7,729,568	779,140
*	Hallmark Financial			*	Alnylam	1,123,500	773,140
	Services Inc.	3,070	3		Pharmaceuticals Inc	3 959 777	757,941
*	Conifer Holdings Inc.	1,497_	2	. *	Illumina Inc.	4,973,266	692,478
		_	157,159,411		STERIS plc	3,099,855	681,503
Healt	h Care (12.0%)		. ,,	*	Molina	5,055,055	001,000
	Eli Lilly & Co.	26,822,326	15,635,270		Healthcare Inc.	1,828,965	660,823
	, 00.	-,,	, ,		. 100.0.10010 1110.	.,525,555	550,520

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Align Technology Inc. Baxter	2,282,857	625,503	*	Acadia Healthcare Co. Inc.	2,761,951	214,769
	International Inc. Laboratory Corp. of	15,912,640	615,183		Encompass Health Corp.	3,157,194	210,648
	America Holdings	2,662,879	605,246		Bruker Corp.	2,853,983	209,711
	Cooper Cos. Inc.	1,554,955	588,457	*	Intra-Cellular	2,000,000	200,7
*	BioMarin				Therapies Inc.	2,918,925	209,053
	Pharmaceutical Inc.	5,909,902	569,833	*	Bio-Rad		
*	Hologic Inc. Quest	7,567,981	540,732		Laboratories Inc. Class A	640,305	206,748
	Diagnostics Inc.	3,523,191	485,778		Ensign Group Inc.	1,789,367	200,785
*	Avantor Inc.	21,177,199	483,475	*	Globus Medical Inc.		
*	Insulet Corp.	2,188,573	474,877		Class A	3,678,084	196,005
	Revvity Inc.	3,895,266	425,792	*	Option Care		
*	Exact Sciences Corp.	5,667,673	419,294		Health Inc.	5,607,168	188,906
*	Neurocrine			*	Apellis Pharmaceuticals Inc.	3 137020	187,836
	Biosciences Inc.	3,109,713	409,736	*	Inspire Medical	3, 137,323	107,030
	Viatris Inc.	37,642,800	407,672		Systems Inc.	922,920	187,750
	Bio-Techne Corp.	4,968,087	383,338	*	Masimo Corp.	1,584,157	185,679
*	Charles River			*	HealthEquity Inc.	2,680,070	177,689
	Laboratories	1 COO E 22	200 401	*	Blueprint Medicines	2,000,070	17 7,000
*	International Inc.	1,609,522	380,491		Corp.	1,922,505	177,332
	Incyte Corp.	5,965,113	374,549	*	Vaxcyte Inc.	2,657,954	166,920
	Teleflex Inc.	1,479,681	368,944	*	Bridgebio	_,	,
	Royalty Pharma plc Class A	11,939,033	335,367		Pharma Inc.	4,132,646	166,835
*	Karuna	11,939,033	333,307	*	DaVita Inc.	1,573,652	164,856
	Therapeutics Inc.	1,031,346	326,431	*	10X Genomics Inc.		
*	United Therapeutics	1,001,010	020, 101		Class A	2,931,539	164,049
	Corp.	1,475,870	324,529	*	Halozyme		
*	Henry Schein Inc.	4,094,456	309,991		Therapeutics Inc.	4,144,894	153,195
*	Repligen Corp.	1,658,869	298,265	*	Alkermes plc	5,211,206	144,559
*	Penumbra Inc.	1,147,047	288,528	*	REVOLUTION		
	Chemed Corp.	472,350	276,207		Medicines Inc.	4,955,001	142,109
	Universal Health	,	-,	*	Insmed Inc.	4,574,547	141,765
	Services Inc.				Perrigo Co. plc	4,250,975	136,796
	Class B	1,809,896	275,901	*	Haemonetics Corp.	1,589,471	135,916
*	Sarepta			*	Amicus	0.500.101	105 700
	Therapeutics Inc.	2,788,735	268,918		Therapeutics Inc.	9,569,161	135,786
	Cytokinetics Inc.	3,154,850	263,398		Lantheus Holdings Inc.	2,152,010	133,425
	ImmunoGen Inc.	8,400,555	249,076	*	Merit Medical	2,132,010	155,425
	Tenet Healthcare	2 200 222	2/1 0/0		Systems Inc.	1,738,225	132,036
*	Corp. Catalent Inc.	3,200,333 5,373,843	241,849 241,447	*	Envista Holdings		
*	Medpace	3,070,040	2-1,1		Corp.	5,479,292	131,832
	Holdings Inc.	772,458	236,782	*	Neogen Corp.	6,107,016	122,812
	DENTSPLY	,		*	Ultragenyx		
	SIRONA Inc.	6,636,783	236,203		Pharmaceutical Inc.	2,537,788	121,357
*	Exelixis Inc.	9,766,182	234,291	*	ACADIA	2 0 4 0 E 1 0	120 407
*	Jazz Pharmaceuticals				Pharmaceuticals Inc.		120,497
	plc	1,899,704	233,664	*	agilon health Inc.	9,550,403	119,858
*	Elanco Animal				Teladoc Health Inc.	5,465,436	117,780
	Health Inc.	15,515,619	231,183		QuidelOrtho Corp.	1,574,859	116,067
*	Natera Inc.	3,624,753	227,055	*	Organon & Co.	8,016,096	115,592
*	Shockwave	1 154 050	010 100	*	Glaukos Corp.	1,452,067	115,425
*	Medical Inc. Ionis	1,151,359	219,403		Madrigal Pharmaceuticals Inc.	493,669	114,225
	Pharmaceuticals Inc.	4 275 916	216,319	*	Azenta Inc.	1,724,869	112,358
	mannaccuticals IIIC.	+,2,0,010	210,010			,,000	,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Evolent Health Inc.			*	SpringWorks		
*	Class A Mirati	3,385,625	111,827	*	Therapeutics Inc. Crinetics	1,922,406	70,168
	Therapeutics Inc.	1,816,862	106,741	*	Pharmaceuticals Inc.	1,970,199	70,100
*	CONMED Corp. Integer Holdings	959,204	105,042		Denali Therapeutics Inc.	3,257,822	69,913
	Corp.	1,041,796	103,221		Celldex Therapeutics Inc.	1,717,439	68.114
*	Inari Medical Inc. Arrowhead	1,562,826	101,459	*	Rocket		
	Pharmaceuticals Inc.		99,306	*	Pharmaceuticals Inc.		67,196
*	Axonics Inc. iRhythm	1,588,517	98,853	*	Certara Inc. Ideaya	3,814,093	67,090
	Technologies Inc.	918,208	98,285		Biosciences Inc.	1,863,817	66,315
*	Cerevel Therapeutics				NeoGenomics Inc.	4,085,347	66,101
	Holdings Inc.	2,309,137	97,907		PTC Therapeutics Inc.		65,376
*	Fortrea Holdings Inc.	2,776,994	96,917	*	Arcellx Inc.	1,175,998	65,268
*	Amedisys Inc.	1,014,044	96,395	*	RadNet Inc.	1,863,273	64,786
*	Progyny Inc. Prestige Consumer	2,582,108	96,003	*	Twist Bioscience Corp.	1,719,854	63,394
	Healthcare Inc.	1,566,174	95,881	*	Beam		
*	Guardant Health Inc.	3,517,527	95,149		Therapeutics Inc.	2,302,115	62,664
*	Krystal Biotech Inc.	765,032	94,910	*	Veracyte Inc.	2,277,635	62,658
* *,1	Doximity Inc. Class A Axsome	3,384,748	94,908	*	Tandem Diabetes Care Inc.	2,073,609	61,337
	Therapeutics Inc.	1,190,855	94,780	*	Dynavax Technologies		
*	Integra LifeSciences				Corp.	4,219,116	58,983
	Holdings Corp.	2,058,729	89,658	*	Arvinas Inc.	1,422,199	58,538
*	Rhythm			*	Apollo Medical		
	Pharmaceuticals Inc.	1,901,409	87,408		Holdings Inc.	1,525,379	58,422
*	Enovis Corp. Pacific Biosciences	1,546,372	86,628	*	lovance Biotherapeutics Inc.	7,104,401	57,759
	of California Inc.	8,579,841	84,168	*,1	PROCEPT BioRobotics Corp.		,
*	Corcept	0.570.400	00 770	*		1,329,448	55,717
	Therapeutics Inc.	2,579,198	83,772	_	Omnicell Inc.	1,424,491	53,604
*	Premier Inc. Class A	3,734,693	83,508	*	Vericel Corp. Catalyst	1,497,790	53,336
	Cymabay Thorapoutics Inc	2 476 000	92 126		Pharmaceuticals Inc.	3 1/15 237	52,871
*	Therapeutics Inc.	3,476,988	82,126	*	Sotera Health Co.	3,119,148	52,558
	Therapeutics Inc.	2,636,708	80,393	*	Viking	0,110,140	32,330
*	Immunovant Inc.	1,875,846	79,029		Therapeutics Inc.	2,816,935	52,423
*	Nuvalent Inc. Class A	1,071,131	78,825	*	Syndax	2,0.0,000	02, .20
	Patterson Cos. Inc.	2,763,530	78,622		Pharmaceuticals Inc.	2,397,295	51,806
*	TransMedics	2,703,330	70,022	*	AtriCure Inc.	1,422,532	50,770
	Group Inc.	979,745	77,331	*	R1 RCM Inc.	4,793,504	50,667
*,1	Ginkgo Bioworks	373,743	77,001	*	Myriad Genetics Inc.	2,645,322	50,631
, .	Holdings Inc.			*	Novocure Ltd.	3,379,432	50,455
	Class A	45,147,591	76,299	*,1	Recursion	3,373,432	30,433
*	Surgery Partners Inc.		76,196	, .	Pharmaceuticals Inc.		
	Select Medical	2,001,071	70,100		Class A	5,116,069	50,444
	Holdings Corp.	3,195,924	75,104	*	Ironwood	-,,	
*	CorVel Corp.	294,506	72,805		Pharmaceuticals Inc.		
*	TG Therapeutics Inc.	4,256,351	72,698		Class A	4,175,083	47,763
*	ICU Medical Inc.	722,563	72,038	*	Addus HomeCare	. ,	,
*	Privia Health	122,000	72,000		Corp.	513,720	47,699
	Group Inc.	3,126,701	72,008	*	Supernus		
*	Amphastar	., .,	-,		Pharmaceuticals Inc.		47,502
	Pharmaceuticals Inc.	1,161,880	71,862	*	STAAR Surgical Co.	1,512,658	47,210
		,	,	*	RayzeBio Inc.	758,478	47,155

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Pacira			*	Collegium		
*,1	BioSciences Inc.	1,393,966	47,032	*	Pharmaceutical Inc. Cytek	991,246	30,511
*	Pharmaceuticals Inc. Alphatec	1,516,303	44,761	*	Biosciences Inc. RAPT	3,288,520	29,991
	Holdings Inc.	2,945,236	44,503		Therapeutics Inc.	1,200,884	29,842
*	Owens & Minor Inc.	2,294,526	44,216	*	MiMedx Group Inc.	3,362,582	29,490
	US Physical Therapy Inc.	463,233	43,146	*	Arcus Biosciences Inc.	1,528,425	29,193
*	Ardelyx Inc.	6,867,148	42,576	*	MannKind Corp.	7,997,219	29,110
*	Inhibrx Inc.	1,098,031	41,725	*	Pliant	1,001,210	20,110
*	BioCryst	1,000,001	41,723		Therapeutics Inc.	1,606,245	29,089
	Pharmaceuticals Inc.	6,927,612	41,496	*	ADMA Biologics Inc.	6,411,673	28,981
*	Xencor Inc.	1,922,471	40,814	*,1	EyePoint		
	National HealthCare				Pharmaceuticals Inc.		28,973
*	Corp. Hims & Hers	436,033	40,298	*	Quanterix Corp.	1,054,687	28,835
	Health Inc.	4,519,954	40.220		Deciphera Pharmaceuticals Inc.	1 760 709	28,402
*	Relay	4,519,954	40,228	*	Day One	1,700,798	20,402
	Therapeutics Inc.	3,651,716	40,205		Biopharmaceuticals		
*	Agios				Inc.	1,932,967	28,221
	Pharmaceuticals Inc.	1,756,423	39,116	*	ANI		
*	UFP				Pharmaceuticals Inc.	506,983	27,955
	Technologies Inc.	226,753	39,011	*,1	Soleno	000 700	07004
*	Protagonist	4 700 440	00.004	*,1	Therapeutics Inc.	692,700	27,881
	Therapeutics Inc.	1,700,416	38,991	-, 1	Cassava Sciences Inc.	1 227000	27,865
	Phreesia Inc.	1,607,539	37,215	*	89bio Inc.	1,237,880	27,003
	Viridian	1,706,889	27176	*	Disc Medicine Inc.	2,417,463	26,924
*	Therapeutics Inc. Warby Parker Inc.	1,700,009	37,176	*,1	Cabaletta Bio Inc.	466,139	
	Class A	2,577,087	36,337	*	Editas Medicine Inc.	1,172,821 2,598,006	26,623 26,318
	LeMaitre	2,077,007	00,007	*,1	Verve	2,590,000	20,310
	Vascular Inc.	625,200	35,486		Therapeutics Inc.	1,846,281	25,737
*	Ligand			*	Accolade Inc.	2,115,278	25,405
	Pharmaceuticals Inc.	495,497	35,388	*	Amylyx		
*	Akero				Pharmaceuticals Inc.	1,724,366	25,383
	Therapeutics Inc.	1,504,408	35,128	*	Zentalis		
_	Sage	1 501 000	24 477	*	Pharmaceuticals Inc.	1,654,319	25,063
*	Therapeutics Inc. Geron Corp.	1,591,020	34,477	*	Amneal	4 004 070	04.050
*		16,290,065	34,372		Pharmaceuticals Inc.		24,656
	Morphic Holding Inc. Embecta Corp.	1,169,956	33,788	*,1	Varex Imaging Corp.	1,183,858	24,269
*	Harmony	1,784,266	33,776	,1	Alpine Immune Sciences Inc.	1,271,329	24,232
	Biosciences			*	Healthcare Services	1,271,329	24,232
	Holdings Inc.	1,030,691	33,291		Group Inc.	2,327,311	24,134
*	Kymera	, ,	,	*	SI-BONE Inc.	1,147,891	24,094
	Therapeutics Inc.	1,283,411	32,676	*	Revance	.,,	2 .,00 .
*	Brookdale Senior				Therapeutics Inc.	2,727,369	23,974
	Living Inc.	5,605,895	32,626	*	Pediatrix Medical		
*	Avanos Medical Inc.	1,449,219	32,506		Group Inc.	2,551,252	23,727
*	Scholar Rock Holding			*	Alignment		
	Corp.	1,715,795	32,257		Healthcare Inc.	2,719,836	23,418
*	Vir Biotechnology Inc.		32,209		National Research	F00 272	00.00:
	RxSight Inc.	797,938	32,173		Corp.	588,072	23,264
	Kura Oncology Inc.	2,207,564	31,745	_	Olema Pharmaceuticals Inc.	1 650 226	22.154
_	Keros Therapeutics Inc.	784,812	31,204	*	Nevro Corp.	1,050,326	23,154 23,104
*	Innoviva Inc.	1,926,684	30,904		ivevio coip.	1,073,304	23, 104
	mmoviva mic.	1,020,004	50,504				

			Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	4D Molecular			*,1	Marinus		
	Therapeutics Inc.	1,139,344	23,083		Pharmaceuticals Inc.	1,507,998	16,392
*	Arcturus Therapeutics			*	Alector Inc.	2,043,595	16,308
	Holdings Inc.	716,967	22,606	*	Enhabit Inc.	1,542,041	15,960
*	REGENXBIO Inc.	1,239,237	22,244	*	Zimvie Inc.	886,345	15,733
*	Maravai LifeSciences Holdings Inc.			*	Kiniksa Pharmaceuticals		
	Class A	3,290,910	21,555		Ltd. Class A	893,713	15,676
*	Travere	0.000.500	04 400	*	GoodRx Holdings Inc.		
* 4	Therapeutics Inc.	2,383,520	21,428		Class A	2,333,432	15,634
*,1	ImmunityBio Inc.	4,255,631	21,363	*	AN2	7.0.404	45.050
*,1	Anavex Life Sciences	0.000.070	01 105	*	Therapeutics Inc.	749,421	15,356
*	Corp.	2,266,872	21,105		Surmodics Inc.	421,394	15,318
*	Zymeworks Inc.	2,028,900	21,080		Atrion Corp.	39,845	15,093
	Avidity Biosciences Inc.	2 212 047	20.022	*	Health Catalyst Inc.	1,626,169	15,058
*	OmniAb Inc.	2,312,947	20,932		Cogent	0.550.005	15.007
*	Artivion Inc.	3,296,609	20,340	*,1	Biosciences Inc.	2,552,205	15,007
*	Adaptive	1,123,317	20,085	-, 1	Nurix Therapouties Inc	1 420 240	14751
	Biotechnologies			*	Therapeutics Inc. Ocular	1,429,349	14,751
	Corp.	4,084,649	20,015		Therapeutix Inc.	3,289,162	14,670
*,1	Apogee	.,00.,010	20,0.0	*	Orthofix Medical Inc.	1,079,096	14,546
	Therapeutics Inc.	709,568	19,825	*	OrthoPediatrics Corp.	446,225	14,507
	HealthStream Inc.	721,873	19,512	*	Silk Road	440,223	14,507
*	Dvne	,	-,-		Medical Inc.	1,168,288	14,335
	Therapeutics Inc.	1,453,532	19,332		Tourmaline Bio Inc.	544,450	14,254
*	CareDx Inc.	1,607,580	19,291	*	DocGo Inc.	2,537,297	14,184
*	OPKO Health Inc.	12,728,537	19,220	*	KalVista	2,001,201	14,104
*	Ambrx				Pharmaceuticals Inc.	1.153.121	14,126
	Biopharma Inc.	1,340,800	19,093	*	Organogenesis		•
*	BioLife Solutions Inc.	1,173,331	19,067		Holdings Inc.		
*	Savara Inc.	3,930,071	18,471		Class A	3,432,061	14,037
*	Tarsus			*,1	Theravance		
	Pharmaceuticals Inc.	911,649	18,461		Biopharma Inc.	1,226,993	13,791
*,1	Liquidia Corp.	1,531,173	18,420	*	MaxCyte Inc.	2,818,256	13,246
*,1	LifeStance Health			*	Edgewise		
	Group Inc.	2,350,645	18,406		Therapeutics Inc.	1,198,693	13,114
*,1	Novavax Inc.	3,816,536	18,319	*	Pulmonx Corp.	1,028,344	13,111
*,1	Altimmune Inc.	1,617,739	18,200	*	Caribou		
*	ACELYRIN Inc.	2,415,024	18,016	* 4	Biosciences Inc.	2,272,290	13,020
*	MacroGenics Inc.	1,839,450	17,696	*,1	Vera		
*	OraSure	0.457540	47000		Therapeutics Inc. Class A	835,574	12,851
	Technologies Inc.	2,157,546	17,692	*	Avid Bioservices Inc.	1,945,642	12,647
	Treace Medical	1 270 255	17574	*	Paragon 28 Inc.	1,009,325	12,546
*	Concepts Inc.	1,378,355	17,574	*	Replimune	1,005,525	12,540
*	Fulgent Genetics Inc.	603,703	17,453		Group Inc.	1,483,980	12,510
*	ModivCare Inc.	394,429	17,351	*,1	Immunome Inc.	1,168,900	12,507
*		12,035,952	17,332	*	Community Health	1,100,000	12,007
*	Evolus Inc.	1,640,561	17,275		Systems Inc.	3,983,855	12,469
*	Icosavax Inc.	1,095,971	17,273	*,1	Allogene	-,500,000	.2, .00
-	Castle	706 167	17101		Therapeutics Inc.	3,876,439	12,443
*	Biosciences Inc.	796,167	17,181	*,1	ORIC	.,,	.2,0
*	PetIQ Inc. Class A	867,296	17,129		Pharmaceuticals Inc.	1,349,104	12,412
-	AdaptHealth Corp. Class A	2,337,979	17,044	*	ALX Oncology		•
*,1	Tango	2,331,313	17,044		Holdings Inc.	831,579	12,382
,,	Therapeutics Inc.	1,700,696	16,837	*	AnaptysBio Inc.	574,301	12,302

			Market				Market
		Shares	Value• (\$000)			Shares	Value• (\$000)
*	Sana		(4444)	*,1	Korro Bio Inc.	175,933	8,432
	Biotechnology Inc.	2,968,610	12,112	*,1	Bluebird Bio Inc.	6,048,441	8,347
*,1	Prime Medicine Inc.	1,363,505	12,081	*,1	Genelux Corp.	591,200	8,283
*,1	Lvell	,,,,,,,,,	,	*,1	Arbutus Biopharma	331,200	0,200
	Immunopharma Inc.	6,174,266	11,978		Corp.	3,300,543	8,251
*,1	HilleVax Inc.	734,955	11,796	*	Aura Biosciences Inc.		8,189
*	Pennant Group Inc.	840,720	11,703		Utah Medical		2,.22
*	Fulcrum				Products Inc.	96,930	8,163
	Therapeutics Inc.	1,694,516	11,438	*,1	Arcutis		
*	Voyager				Biotherapeutics Inc.	2,501,217	8,079
	Therapeutics Inc.	1,344,790	11,350	*,1	Esperion		
*,1	Fennec				Therapeutics Inc.	2,691,796	8,048
	Pharmaceuticals Inc.		11,265	*	Applied		
*,1	Avita Medical Inc.	816,217	11,199		Therapeutics Inc.	2,396,489	8,028
*,1	Harrow Inc.	992,128	11,112	*,1	Celcuity Inc.	550,479	8,020
*	Cerus Corp.	5,068,933	10,949	*	Agiliti Inc.	1,009,959	7,999
*,1	Coherus	0.004.470	40.070	*,1	Zynex Inc.	732,906	7,981
	Biosciences Inc.	3,264,178	10,870	*	Mersana		
*,1 *	Biomea Fusion Inc.	745,055	10,818		Therapeutics Inc.	3,413,782	7,920
*	SomaLogic Inc.	4,157,015	10,517	*	Y-mAbs	4 450 470	7000
	American Well Corp.	0.017000	10.007	*	Therapeutics Inc.	1,159,178	7,906
*,1	Class A Phathom	6,917,282	10,307		Terns Pharmaceuticals Inc.	1 219 066	7.905
- '	Pharmaceuticals Inc.	1 100 /52	10,120	*,1	Agenus Inc.	9,494,960	7,861
*	Tactile Systems	1,100,402	10,120	*,1	Taysha Gene	9,494,900	7,001
	Technology Inc.	702,000	10,039	, .	Therapies Inc.	4,387,426	7,766
*	CVRx Inc.	316,816	9,961	*,1	23andMe Holding	1,007,120	7,700
*	Anika	010,010	0,001		Co. Class A	8,501,758	7,766
	Therapeutics Inc.	438,739	9.942	*	Rigel	,	,
*	Clover Health		-,-		Pharmaceuticals Inc.	5,156,463	7,477
	Investments Corp.			*,1	Aerovate		
	Class A	10,280,134	9,788		Therapeutics Inc.	328,971	7,445
	iRadimed Corp.	204,905	9,727	*,1	Senseonics		
*,1	Scilex Holding Co.	4,763,028	9,717		Holdings Inc.	12,947,685	7,381
*,1	Enliven			*	Sutro Biopharma Inc.	1,708,596	7,330
	Therapeutics Inc.	699,300	9,678	*	Vanda		
*	Xeris Biopharma				Pharmaceuticals Inc.		7,267
	Holdings Inc.	4,106,991	9,651	*	OptimizeRx Corp.	505,901	7,239
*	Fate	0.500.000	0.504	*,1	Absci Corp.	1,708,381	7,175
	Therapeutics Inc.	2,562,686	9,584	*,1	C4 Therapeutics Inc.	1,268,599	7,168
*,1	Sharecare Inc.	8,872,250	9,582	*,1	Gossamer Bio Inc.	7,830,376	7,145
-,1	Summit Therapeutics Inc.	2 662 102	9,558	*	Viemed	007050	7400
*	AngioDynamics Inc.	3,662,182 1,212,644	9,507	*	Healthcare Inc.	907,059	7,120
*	Cullinan	1,212,044	9,507		TScan Therapeutics Inc.	1,190,934	6,943
	Oncology Inc.	922,529	9,401	*	Atea	1,130,334	0,343
*	Axogen Inc.	1,375,595	9,395		Pharmaceuticals Inc.	2 253 893	6,874
*,1	Entrada	1,070,000	0,000	*,1	Harpoon	2,200,000	0,071
	Therapeutics Inc.	602,072	9,085		Therapeutics Inc.	603,141	6,858
*	Outset Medical Inc.	1,666,098	9,014	*	InfuSystem	,	5,555
*	Semler Scientific Inc.	202,309	8,960		Holdings Inc.	645,855	6,807
*	Talkspace Inc.	3,519,033	8,938	*,1	Zomedica Corp.	33,687,896	6,744
*	Accuray Inc.	3,121,853	8,835	*	Harvard		•
*	Astria	.,,000	3,000		Bioscience Inc.	1,259,834	6,740
	Therapeutics Inc.	1,134,044	8,709		SIGA		
*,1	908 Devices Inc.	758,127	8,506		Technologies Inc.	1,189,862	6,663
*	iTeos		•		Phibro Animal Health		
	Therapeutics Inc.	771,420	8,447		Corp. Class A	569,430	6,594

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*,1	Vistagen			*	Computer Programs		
	Therapeutics Inc.	1,277,510	6,566		& Systems Inc.	463,726	5,194
*	Invivyd Inc.	1,620,200	6,384	*,1	Invitae Corp.	8,208,345	5,145
*,1	Orchestra BioMed			*	Acumen		
	Holdings Inc.	697,362	6,367		Pharmaceuticals Inc.	1,319,129	5,065
*,1	Tyra Biosciences Inc.	458,562	6,351	*	Poseida		
*,1	Zevra				Therapeutics Inc.	1 500 000	F 000
	Therapeutics Inc.	967,269	6,336	* 1	Class A	1,506,603	5,062
*	Codexis Inc.	2,072,588	6,321	*,1	XOMA Corp.	272,821	5,047
	Standard	0.050.000	0.010	*,1	Allakos Inc.	1,821,663	4,973
*	BioTools Inc.	2,856,696	6,313	-,1	Lineage Cell Therapeutics Inc.	4,523,730	4,931
*,1	Nuvation Bio Inc.	4,178,976	6,310	*	Praxis Precision	4,323,730	4,331
-,1	ARS Pharmaceuticals Inc.	1 124 600	6 210		Medicines Inc.	219,483	4,890
*,1	CorMedix Inc.		6,218 6,201	*	Myomo Inc.	958,764	4,803
*,1	2seventy bio Inc.	1,649,126 1,443,176	6,162	*	Annexon Inc.	1,055,049	4,790
*,1	Nkarta Inc.	931,700	6,149	*,1	Monte Rosa	1,000,040	4,700
*,1	Heron	931,700	0,143		Therapeutics Inc.	844,219	4,770
, .	Therapeutics Inc.	3,607,037	6,132	*	PMV		.,
*	Puma	0,007,007	0,102		Pharmaceuticals Inc.	1,524,487	4,726
	Biotechnology Inc.	1,414,207	6,124	*	Humacyte Inc.	1,620,693	4,603
*,1	Verastem Inc.	746,247	6,074	*,1	Immuneering Corp.		
*,1	Quantum-Si Inc.	3,012,870	6,056		Class A	616,596	4,532
*,1	Verrica	0,012,070	0,000	*	Joint Corp.	469,145	4,508
	Pharmaceuticals Inc.	814,672	5,963	*,1	Sight Sciences Inc.	863,824	4,457
*	Ovid therapeutics	,	•	*,1	Butterfly		
	Inc.	1,851,578	5,962		Network Inc.	4,113,565	4,443
*,1	Omeros Corp.	1,822,044	5,958	*,1	X4		
*	Aldeyra				Pharmaceuticals Inc.		4,431
	Therapeutics Inc.	1,696,710	5,955	*,1	Ocugen Inc.	7,596,773	4,368
*,1	Janux			*	Akoya		
	Therapeutics Inc.	548,511	5,886	*	Biosciences Inc.	881,015	4,299
*,1	Akebia			*	Merrimack	210 120	4.000
*	Therapeutics Inc.	4,709,482	5,840	* 1	Pharmaceuticals Inc.	318,128	4,266
	Inozyme Pharma Inc.	1,351,902	5,759	*,1 *,1	Tela Bio Inc.	642,283	4,252
*,1	Lexicon	0.700.774	E 00E	*,1	Annovis Bio Inc.	225,507	4,217
*	Pharmaceuticals Inc.	3,702,774	5,665	, '	Inovio Pharmaceuticals Inc.	0 260 420	4,213
	Third Harmonic Bio Inc.	516,335	5,664	*,1	PDS Biotechnology	0,200,420	4,213
*	Mineralys	510,555	5,004	,.	Corp.	845,684	4,203
	Therapeutics Inc.	658,659	5,664	*	Syros	040,004	4,200
*	Enanta	000,000	0,001		Pharmaceuticals Inc.	535,713	4,173
	Pharmaceuticals Inc.	592,129	5,572	*,1	Seres	,	,
*,1	ClearPoint Neuro Inc.	819,120	5,562		Therapeutics Inc.	2,966,502	4,153
*	FONAR Corp.	282,837	5,532	*,1	Inmune Bio Inc.	361,452	4,070
*,1	Stoke	,	-,	*,1	Actinium		
	Therapeutics Inc.	1,029,440	5,415		Pharmaceuticals Inc.	794,173	4,034
*,1	Gritstone bio Inc.	2,636,056	5,378	*	Ventyx		
*,1	Precigen Inc.	3,991,343	5,348		Biosciences Inc.	1,608,361	3,973
*,1	scPharmaceuticals			*,1	G1 Therapeutics Inc.	1,295,502	3,951
	Inc.	847,334	5,313	*,1	GlycoMimetics Inc.	1,661,637	3,921
*,1	Shattuck Labs Inc.	731,691	5,217	*	Erasca Inc.	1,830,279	3,899
*	Tenaya			*	Perspective		
	Therapeutics Inc.	1,610,005	5,216		Therapeutics Inc.	9,673,312	3,889
*	Nautilus			*,1	IGM Biosciences Inc.	460,333	3,825
	Biotechnology Inc.	1 740 074	F 040	*,1	Innovage Holding	000 750	0.705
	Class A	1,742,974	5,212	*	Corp.	630,750	3,785
				_	Inogen Inc.	688,056	3,777

		Chara	Market Value•			Chana	Market Value•
		Shares	(\$000)			Shares	(\$000)
*,1	Capricor	707.005	0.750	*,1	Eton	004 747	
	Therapeutics Inc.	767,235	3,752	*	Pharmaceuticals Inc.	681,717	2,986
_	Relmada	004.705	2.745		Kodiak Sciences Inc.	980,492	2,981
*	Therapeutics Inc. Aveanna Healthcare	904,705	3,745	*,1 *	Sanara Medtech Inc.	71,464	2,937
	Holdings Inc.	1,391,988	3,731	*	Personalis Inc.	1,375,373	2,888
*,1	Emergent	1,331,300	3,731		Athira Pharma Inc.	1,183,657	2,876
, .	BioSolutions Inc.	1,543,545	3,705		KORU Medical	1 140 CE1	2 200
*,1	Abeona	1,010,010	0,700		Systems Inc.	1,140,651	2,800
	Therapeutics Inc.	738,626	3,701	*,1	Chimerix Inc.	2,904,360	2,795
*	Larimar	,-	-,	, '	Karyopharm Therapeutics Inc.	3,209,249	2,776
	Therapeutics Inc.	811,421	3,692	*	Electromed Inc.	253,800	2,770
*,2	PDL BioPharma Inc.	2,258,201	3,636	*	NeuroPace Inc.	267,456	2,757
*,1	CEL - SCI Corp.	1,336,126	3,634	*	Longboard	207,430	2,737
*,1	Pulse				Pharmaceuticals Inc.	454,801	2,742
	Biosciences Inc.	296,203	3,626	*,1	Hyperfine Inc.	454,001	2,742
*,1	Reviva			•	Class A	2,390,349	2,677
	Pharmaceuticals			*,1	Apyx Medical Corp.	1,015,930	2,662
	Holdings Inc.	700,442	3,607	*,1	Inotiv Inc.	720,906	2,646
*	Anixa			*,1	Cartesian	720,500	2,040
	Biosciences Inc.	927,841	3,600	,	Therapeutics Inc.	3,799,067	2,619
*	Bioventus Inc.			*	Neuronetics Inc.	902,726	2,618
	Class A	679,103	3,579	*	Oncology	002,720	2,010
*,1	Foghorn				Institute Inc.	1,273,384	2,598
	Therapeutics Inc.	550,850	3,553	*,1	FibroGen Inc.	2,912,350	2,581
*,1	Sera Prognostics Inc.	500.004	0.505	*	Stereotaxis Inc.	1,470,512	2,573
	Class A	586,201	3,505	*	Generation Bio Co.	1,555,025	2,566
*,1	Biote Corp. Class A	708,040	3,498	*,1	AirSculpt	1,000,020	2,000
Ţ	Lyra Therapeutics Inc.	661,817	3,468		Technologies Inc.	341,234	2,556
	Compass	0.107070	0.410	*	Graphite Bio Inc.	969,009	2,539
* 1	Therapeutics Inc.	2,187,972	3,413	*,1	XBiotech Inc.	622,546	2,490
*,1	Optinose Inc.	2,642,428	3,409	*,1	Asensus Surgical Inc.	7,734,650	2,467
	Black Diamond	1 204 057	2.206	*,1	Vaxart Inc.	4,069,328	2,331
*,1	Therapeutics Inc.	1,204,957	3,386	*	aTyr Pharma Inc.	1,652,835	2,331
, '	CytomX Therapeutics Inc.	2,182,220	3,382	*	Sangamo	.,002,000	2,00
*,1	Atossa	2,102,220	3,362		Therapeutics Inc.	4,281,700	2,326
,.	Therapeutics Inc.	3,779,376	3,326	*	SCYNEXIS Inc.	1,040,219	2,320
*	Lexeo	0,770,070	0,020	*,1	Bionano	, , .	,
	Therapeutics Inc.	247,281	3,319		Genomics Inc.	1,218,851	2,304
*	Augmedix Inc.	564,821	3,304	*,1	Vor BioPharma Inc.	990,141	2,228
*	Nektar Therapeutics	00 1,02 1	0,00	*	Aguestive		
	Class A	5,846,571	3,303		Therapeutics Inc.	1,096,885	2,216
*	Assertio		,	*	Werewolf		
	Holdings Inc.	3,013,166	3,224		Therapeutics Inc.	567,665	2,191
*,1	Omega			*	Jasper		
	Therapeutics Inc.	1,055,010	3,176		Therapeutics Inc.	2,773,673	2,188
*	Cue Biopharma Inc.	1,190,778	3,144	*	Aclaris		
*	ChromaDex Corp.	2,196,484	3,141		Therapeutics Inc.	1,999,428	2,099
*,1	Citius	-	•	*	Adverum		
	Pharmaceuticals Inc.	4,132,683	3,126		Biotechnologies Inc.		2,099
*	BioAtla Inc.	1,267,868	3,119	*,1	Cutera Inc.	594,164	2,094
*	Seer Inc. Class A	1,594,055	3,092	*	Century	005	
1	Carisma	-	•		Therapeutics Inc.	625,729	2,077
	Therapeutics Inc.	1,054,783	3,091	*,1	PepGen Inc.	304,943	2,074
*	Mural Oncology plc	520,278	3,080	*	Ikena Oncology Inc.	1,031,034	2,031
*	Prelude			*	Trevi	4 500 05:	
	Therapeutics Inc.	720,427	3,076		Therapeutics Inc.	1,502,831	2,014

Shares         (\$000)         Shares         (\$000)           *.1 Galectin Therapeutics Inc.         1,189,409         1,974         Therapeutics Inc.         506,271         1,438           *.1 ProKidney Corp. Class A         1,064,701         1,895         Medical Inc.         759,624         1,436           *.1 Bioxcel Therapeutics Inc.         640,245         1,889         *.1 Outlook Therapeutics Inc.         3,610,237         1,422           * Spruce Biosciences Inc.         638,558         1,871         *.1 Atara         Atara         2,710,236         1,390           * 1 Cardiff Oncology Inc.         1,254,717         1,857         Biotherapeutics Inc.         2,710,236         1,390           * 1 Ocuphire Pharma Inc.         611,415         1,840         *.1 Kronos Bio Inc.         1,070,954         1,339           * Adicet Bio Inc.         968,997         1,831         *.1 Achieve Life         320,421         1,320           * Vigil         Sciences Inc.         320,421         1,320           * Kezar Life         Sensus         Healthcare Inc.         555,562         1,311           * Eagle         *.1 Matinas BioPharma           Pharmaceuticals Inc.         336,766         1,761         Holdings Inc.         6,020,598         1,286				Market Value•				Market Value•
Therapeutics Inc. 1,189,409 1,974 Therapeutics Inc. 506,271 1,438 Therapeutics Inc. 759,624 1,436 Medical Inc. 759,624 1,436 Medical Inc. 1,051,279 1,430 Therapeutics Inc. 640,245 1,889 Spruce Biosciences Inc. 638,558 1,871 1,857 Cardiff Oncology Inc. 1,254,717 1,857 Cardiff Oncology Inc. 1,254,717 1,857 Adicet Bio Inc. 968,997 1,831 1,849 Neuroscience Inc. 511,740 1,797 1,707,954 1,339 Rezar Life Sciences Inc. 1,877,555 1,779 Eagle Pharmaceuticals Inc. 336,766 1,761 Theseus Pharmaceuticals Inc. 431,873 1,749 1,701 Therapeutics Inc. 730,663 1,732 Immunic Inc. 1,150,800 1,726 Therapeutics Inc. 730,663 1,732 Therapeutics Inc. 730,766 1,770 Therapeutics Inc. 1,180,800 1,726 Therapeutics Inc. 1,279,125 1,701 Therapeutics Inc. 1,280,803 1,601 Therapeutics Inc. 1,280,803 1,601 Therapeutics Inc. 1,380,804 1,611 Therapeutics I			Shares				Shares	(\$000)
Therapeutics Inc. 1,189,409 1,974 Therapeutics Inc. 500,271 1,438   Therapeutics Inc. Class A 1,064,701 1,895 Medical Inc. 750,624 1,436   Spruce Biosceiences Inc. 640,245 1,889 1 Outlook Therapeutics Inc. 640,245 1,889 1 Outlook Therapeutics Inc. 611,415 1,840 1 Therapeutics Inc. 3,610,237 1,422   Therapeutics Inc. 611,415 1,840 1 Therapeutics Inc. 2,710,236 1,390 1 Therapeutics Inc. 611,415 1,840 1 Kronos Bio Inc. 1,070,954 1,339   Adicat Bio Inc. 968,997 1,831 1 Active Life Sciences Inc. 320,421 1,320   Neuroscience Inc. 531,740 1,797 1 CareMax Inc. 2,648,343 1,319   Sciences Inc. 1,877,555 1,779   Eagle Pharmaceuticals Inc. 336,766 1,761   Theseus Pharmaceuticals Inc. 431,873 1,749 1 Vaxxinity Inc. Class A 1,892,74 1 Vaxxinity Inc. Class A 1,489,74 1,722   Therapeutics Inc. 1,150,800 1,726   Therapeutics Inc. 1,150,800 1,726   Therapeutics Inc. 1,279,125 1,701 1 Therapeutics Inc. 1,279,273 1,274 1 Therapeutics Inc. 1,279,275 1,158 1 Therapeutics Inc. 1,275,275 1 Therapeutics Inc. 1,275,231 1,272 1 Therapeutics Inc. 1,2	*,1	Galectin			*	DiaMedica		
ProKidney Corp.   Class A   1,064,701   1,895   Medical Inc.   759,624   1,438   Medical Inc.   759,624   1,430   Medical Inc.   759,624   1,390   Medical Inc.   759,624   1,390   Medical Inc.   759,624   1,438   Medical Inc.   759,624   1,390   Medical Inc.   7			1,189,409	1,974			506,271	1,438
Blookea   1,430   1,440   1,	*,1				*,1			
Therapeutics Inc. 640,245 1,889 7. Outlook Therapeutics Inc. 3,610,237 1,422   Spruce Biosciences Inc. 638,558 1,871 1,422   Therapeutics Inc. 2,710,236 1,330   Adicet Bio Inc. 968,997 1,831 7. Krons Bio Inc. 1,070,954 1,339   Adicet Bio Inc. 968,997 1,831 7. Krons Bio Inc. 1,070,954 1,339   Adicet Bio Inc. 531,740 1,797 7. Carefully Inc. 1,320   Rezar Life Sciences Inc. 1,877,555 1,779   Eagle Pharmaceuticals Inc. 336,766 1,761   Thessus Pharmaceuticals Inc. 431,873 1,749 7. Vaxinity Inc. Class A 1,889,274 1,266   Biopharma Inc. 730,663 1,732 7. Pa Health Sinch Inc. 1,150,800 1,726   Immunic Inc. 1,150,800 1,726   Biopharma Inc. 730,663 1,732 7. Pa Health Sinch Inc. 1,150,800 1,726   Therapeutics Inc. 2,166,643 1,720   Therapeutics Inc. 1,279,125 1,701 7. Pro-Dex Inc. 98,013 1,703   Therapeutics Inc. 1,279,125 1,701 7. Cor-Diagnostics Inc. 1,279,125 1,701 7. Pro-Dex Inc. 98,013 1,703   Therapeutics Inc. 73,218 1,695 7. Palatin Technologies Inc. 1,187,908 1,651 Palatin Technologies Inc. 1,187,908 1,651 Palatin Technologies Inc. 1,187,908 1,651 Palatin Technologies Inc. 1,383,664 1,619 Sinch Inc. 1,496,581 1,510 Sinch Inc. 1,406,581 1,510 Sinch Inc. 1,406,541 1,510		Class A	1,064,701	1,895		Medical Inc.	759,624	1,436
Spruce   Biosciences Inc.   638.558   1.871   1.422	*,1					Avrobio Inc.	1,051,279	1,430
Biosciences Inc.   638,558   1,871     Atara   Biotherapeutics Inc.   2,710,236   1,329   1,339   Adicet Bio Inc.   638,497   1,831     Achieve Life   Sciences Inc.   320,421   1,320   3,399   3,431   3,400   4,4		· ·	640,245	1,889	*,1			
Cardiff Oncology Inc. 1,254,717   1,857   Biotherapeutics Inc. 2,70,236   1,390			620 550	1 071	* 1		3,610,237	1,422
***   Ocuphire Pharma Inc.   611,415   1,840   ***   Kronos Bio Inc.   1,070,954   1,339   Adicet Bio Inc.   968,997   1,831   ***   Achieve Life   Sciences Inc.   320,421   1,320   Neuroscience Inc.   531,740   1,797   ***   CareMax Inc.   2,648,343   1,319   Sciences Inc.   1,877,555   1,779   Healthcare Inc.   555,562   1,311   Eagle Pharmaceuticals Inc.   336,766   1,761   Holdings Inc.   726,680   1,286   Pharmaceuticals Inc.   431,873   1,749   Waxinity Inc. Class A   1,489,274   1,266   Kinnate Pharmaceuticals Inc.   1,150,800   1,726   Holdings Inc.   1,150,800   1,726   Partners Inc.   868,499   1,225   Ranil Therapeutics Holdings Inc.   2,166,543   1,720   Partners Inc.   868,499   1,225   Pro-Dex Inc.   98,013   1,703   Health   Therapeutics Inc.   1,279,125   1,701   Hondings Inc.   1,279,125   1,701   Cargo Therapeutics Inc.   73,218   1,695   Holdings Inc.   1,396,133   1,131   Palatin Technologies Inc.   409,703   1,631   February Inc.   1,396,133   1,131   Palatin Technologies Inc.   1,87,564   1,619   Pharma Inc.   2,159,797   1,158   Pharmaceuticals Inc.   1,383,654   1,619   Corp.   216,988   1,115   Passage Bio Inc.   1,183,654   1,619   Corp.   216,988   1,115   Passage Bio Inc.   1,19,69   1,521   Inc.   1,269,403   1,090   Therapeutics Inc.   17,703   1,574   Design Therapeutics Inc.   1,269,403   1,090   Therapeutics Inc.   1,19,69   1,521   Inc.   1,254,313   1,006   Therapeutics Inc.   1,007,326   1,481   1,445   Nilestone   1,444,788   999   Therapeutics Inc.   1,007,326   1,481   1,445   Nilestone   1,444,788   999   Thank Medical Holdings	* 1		,		-,1		2 710 226	1 200
**Adiciet Bio Inc. 968,997 1,831 **.1 Achieve Life Sciences Inc. 1,320 Neuroscience Inc. 531,740 1,797 **.1 CareMax Inc. 2,648,343 1,319 Sensus Fharmaceuticals Inc. 36,766 1,761 Healthcare Inc. 555,562 1,311 Matinas BioPharma Finance Pharmaceuticals Inc. 431,873 1,749 **.1 Matinas BioPharma Finance Fi		07			* 1	'		
Vigil Neuroscience Inc.   531,40   1,797   1,204   1,320	*						1,070,954	1,339
Neuroscience Inc.   531,740   1,797   1,797   CareMax Inc.   2,648,343   1,319	*		300,337	1,001			320.421	1.320
Kezar Life   Sciences Inc.   1,877,555   1,779   Halthcare Inc.   555,562   1,311		9	531.740	1.797	*,1			
Eagle	*		,	, -	*	Sensus	,, -	,-
Pharmaceuticals Inc.   336,766		Sciences Inc.	1,877,555	1,779		Healthcare Inc.	555,562	1,311
Theseus	*				*,1	Matinas BioPharma		
Pharmaceuticals Inc.   431,873   1,749   1,   Vaxxinity Inc. Class A   1,499,274   1,266		Pharmaceuticals Inc.	336,766	1,761		•	6,020,598	1,302
Kinnate	*						726,680	1,286
Biopharma Inc.   730,663   1,732   1			431,873	1,749		'		1,266
**.1         Immunic Inc.         1,150,800         1,726         Partners Inc.         868,499         1,225           **.1         Rani Therapeutics         ** Elicio         Therapeutics Inc.         144,639         1,206           **.1         Class A         518,702         1,722         **.1         Allovir Inc.         1,771,721         1,204           **.1         Cidara         **.50lid         Biosciences Inc.         190,097         1,167           **.1         Pro-Dex Inc.         98,013         1,703         1         MEI Pharma Inc.         201,106         1,166           **.1         Co-Diagnostics Inc.         1,279,125         1,701         **.1         Oncternal         Therapeutics Inc.         2,159,797         1,158           **.1         Cargo         Therapeutics Inc.         2,159,797         1,158         Hookipa Pharma Inc.         2,159,797         1,158           **.1         DermTech Inc.         967,000         1,692         **Assembly         Assembly         Biosciences Inc.         1,377,385         1,131           **1         Palatin         **Technologies Inc.         409,703         1,631         **1 GeneDx Holdings         Corp. Class A         410,782         1,130           **1			700 660	1 700		,	302,558	1,259
*** Rani Therapeutics Holdings Inc. Class A 518,702 1,722 **.1 Allovir Inc. 1,771,721 1,204  ***Cidara Therapeutics Inc. 2,166,543 1,720 Biosciences Inc. 190,097 1,167  ***Pro-Dex Inc. 98,013 1,703 MEI Pharma Inc. 201,106 1,166  **Co-Diagnostics Inc. 1,279,125 1,701 **.1 Oncternal Therapeutics Inc. 73,218 1,695 **.1 Hookipa Pharma Inc. 1,396,133 1,131  ***Pro-Dex Inc. 967,000 1,692 ** Assembly Enzo Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,377,385 1,130  ***Palatin 40,9703 1,631 **.1 GeneDx Holdings Corp. Class A 410,782 1,130  **Pyxis Oncology Inc. 903,923 1,627 Corp. Class A 410,782 1,130  **Clearside Biomedical Inc. 1,383,654 1,619 Corp. 216,998 1,115  **Greenwich Lifesciences Inc. 153,459 1,614 NGM  **Lifesciences Inc. 775,664 1,613 Biopharmaceuticals Inc. 775,664 1,613 Cyteir Therapeutics Inc. 119,269 1,521 Therapeutics Inc. 103,857 1,080 Surgical Inc Class A 2,852,321 1,046  **Passage Bio Inc. 1,496,581 1,512 Therapeutics Inc. 499,926 1,010 Therapeutics Inc. 507,760 1,485 Spero Therapeutics Inc. 1,007,326 1,481 Therapeutics Inc. 1,447,898 999	* 1				*,1		000 400	4.005
Holdings Inc.   Class A   518,702   1,722   1.1   Allovir Inc.   1,771,721   1,204			1,150,600	1,720			868,499	1,225
Class Å 518,702 1,722 *.1 Allovir Inc. 1,771,721 1,204  *I Cidara	,.						1// 630	1 206
*** Cidara Therapeutics Inc. 2,166,543 1,720 Biosciences Inc. 190,097 1,167 1,166   ** Pro-Dex Inc. 98,013 1,703 1 MEI Pharma Inc. 201,106 1,166   ** Co-Diagnostics Inc. 1,279,125 1,701 1,100 Concternal Therapeutics Inc. 73,218 1,695 1,100 Concternal Therapeutics Inc. 967,000 1,692   ** Enzo Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,396,133 1,131   ** Palatin Palatin Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,377,385 1,130   ** Pyxis Oncology Inc. 903,923 1,627 Corp. Class A 410,782 1,130   ** Clearside Biomedical Inc. 1,383,654 1,619 Corp. 216,998 1,115   ** Eyenovia Inc. 775,664 1,613 Biopharmaceuticals Inc. 775,664 1,613 Biopharmaceuticals Inc. 517,703 1,574 Design Therapeutics Inc. 309,500 1,523 Dianthus Therapeutics Inc. 119,269 1,521 Therapeutics Inc. 1,496,581 1,512 Therapeutics Inc. 1,496,581 1,512 Therapeutics Inc. 763,374 1,496 Activos Pharmaceuticals Inc. 763,374 1,496 Activos Spero Therapeutics Inc. 1,007,326 1,481 Milestone Scientific Inc. 1,447,898 999 Activity Activos Scientific Inc. 1,447,898 999 Activity Activos Pharmaceuticals Inc. 1,007,326 1,481 Milestone Scientific Inc. 1,447,898 999 Activos Scientific Inc. 1,447,898 999 Activos Pharmaceuticals Inc. 1,007,326 1,481 Milestone Scientific Inc. 1,447,898 999 Activos Pharmaceuticals Inc. 1,302,216 Activos Scientific Inc. 1,447,898 999 Activos Pharmaceuticals Inc. 1,302,216 Activos Scientific Inc. 1,447,898 999 Activos Pharmaceuticals Inc. 1,302,216 Activos Scientific Inc. 1,447,898 999 Activos Pharmaceuticals Inc. 1,302,216 Activos Pharmaceuticals Inc. 1,447,898 999 Acti			518.702	1.722	*.1			
Therapeutics Inc. 2,166,543 1,720 Biosciences Inc. 190,097 1,167 Pro-Dex Inc. 98,013 1,703 1 MEI Pharma Inc. 201,106 1,166 Co-Diagnostics Inc. 1,279,125 1,701 *:1 Oncternal Therapeutics Inc. 2,159,797 1,158 Therapeutics Inc. 73,218 1,695 *:1 Hookipa Pharma Inc. 1,396,133 1,131 DermTech Inc. 967,000 1,692 *Assembly Biosciences Inc. 1,377,385 1,130 Palatin Alpha Teknova Inc. 303,047 1,130 Technologies Inc. 409,703 1,631 *:1 GeneDx Holdings Pyxis Oncology Inc. 903,923 1,627 Corp. Class A 410,782 1,130 Clearside Biomedical Inc. 1,383,654 1,619 Corp. 216,998 1,115 Greenwich Lifesciences Inc. 153,459 1,614 NGM Expensivis Inc. 775,664 1,613 Biopharmaceuticals Inc. 1,269,403 1,090 Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 119,269 1,521 Therapeutics Inc. 119,269 1,521 *I RIDEX Corp. 373,047 1,080 Rallybio Corp. 636,414 1,521 Therapeutics Inc. 119,269 1,521 *I RIDEX Corp. 373,047 1,048 Passage Bio Inc. 1,496,581 1,510 Surgical Inc. Class A 2,852,321 1,046 Corvus Pharmaceuticals Inc. 763,374 1,496 Aadi Biosciences Inc. 1,354,313 1,006 Therapeutics Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006 Therapeutics Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006 Therapeutics Inc. 1,007,326 1,481 *I Milestone Scientific Inc. 1,447,898 999 Xtant Medical	*,1	Cidara	,	,			1,771,721	1,204
Pro-Dex Inc.   98,013   1,703   1   MEI Pharma Inc.   201,106   1,166		Therapeutics Inc.	2,166,543	1,720			190.097	1.167
*.1 Co-Diagnostics Inc. 1,279,125 1,701 *.1 Oncternal Therapeutics Inc. 2,159,797 1,158 Therapeutics Inc. 73,218 1,695 *.1 Hookipa Pharma Inc. 1,396,133 1,131   *.1 DermTech Inc. 967,000 1,692 * Assembly   * Enzo Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,377,385 1,130   *.1 Palatin	*	Pro-Dex Inc.	98,013	1,703	1			
Therapeutics Inc. 73,218 1,695 1.1 Hookipa Pharma Inc. 1,396,133 1,131  **1 DermTech Inc. 967,000 1,692 Assembly Enzo Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,377,385 1,130  **1 Palatin Alpha Teknova Inc. 303,047 1,130  **Pyxis Oncology Inc. 903,923 1,627 Corp. Class A 410,782 1,130  **Clearside Biomedical Inc. 1,383,654 1,619 Corp. 216,998 1,115  **I Greenwich Lifesciences Inc. 153,459 1,614 NGM Biopharmaceuticals Inc. 1,269,403 1,090  **Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 309,500 1,523 Dianthus  **Rallybio Corp. 636,414 1,521 Therapeutics Inc. 119,269 1,521 **I IRIDEX Corp. 373,047 1,048  **Passage Bio Inc. 1,496,581 1,512 **I Vicarious Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **I Corvus Pharma Inc. 857,417 1,509 Biosciences Inc. 499,926 1,010  **Therapeutics Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010  **Therapeutics Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006  **Therapeutics Inc. 1,007,326 1,481 **I Milestone Scientific Inc. 1,447,898 999  **Xtant Medical **I Assembly Bioscience Inc. 1,447,898 999  **Xtant Medical **I Assembly Bioscience Inc. 1,496,581 1,445 Scientific Inc. 1,447,898 999		Co-Diagnostics Inc.	1,279,125	1,701	*,1	Oncternal	·	•
**I DermTech Inc. 967,000 1,692 * Assembly	*,1					Therapeutics Inc.	2,159,797	1,158
* Enzo Biochem Inc. 1,187,908 1,651 Biosciences Inc. 1,377,385 1,130  **Technologies Inc. 409,703 1,631 *.1 GeneDx Holdings     Pyxis Oncology Inc. 903,923 1,627 Corp. Class A 410,782 1,130  **Clearside Biomedical Inc. 1,383,654 1,619 Corp. 216,998 1,115  **I Greenwich Lifesciences Inc. 153,459 1,614 NGM  **Lantern Pharma Inc. 256,113 1,096  **Lantern Pharma Inc. 256,113 1,096  **I Eyenovia Inc. 775,664 1,613 Biopharmaceuticals Inc. 1,269,403 1,090  **Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 411,201 1,090  **Therapeutics Inc. 309,500 1,523 Dianthus  **Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  **Passage Bio Inc. 1,496,581 1,512 Therapeutics Inc. 103,857 1,080  **Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **Corvus Dharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  **Paramaceuticals Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006  **Therapeutics Inc. 1,007,326 1,481 Therapeutics Inc. 1,447,898 999  **Xtant Medical**					*,1	Hookipa Pharma Inc.	1,396,133	1,131
**1 Palatin     Technologies Inc.					*			
Technologies Inc.   409,703   1,631   *:1   GeneDx Holdings   1,130   Corp. Class A   410,782   1,130   Clearside   Biomedical Inc.   1,383,654   1,619   Corp.   216,998   1,115   Corp.   216,998   1,115   Corp.   216,998   1,115   Lantern Pharma Inc.   256,113   1,096   Lifesciences Inc.   153,459   1,614   NGM   Biopharmaceuticals   Inc.   1,269,403   1,090   Therapeutics Inc.   517,703   1,574   Design   Therapeutics Inc.   411,201   1,090   Therapeutics Inc.   309,500   1,523   Dianthus   Therapeutics Inc.   119,269   1,521   Therapeutics Inc.   103,857   1,080   1,080   Therapeutics Inc.   1,496,581   1,512   **1   Vicarious   Vicarious   Vicarious   Vicarious   Vicarious   Nuvectis Pharma Inc.   181,040   1,510   Surgical Inc. Class A   2,852,321   1,046   Corvus   Pharmaceuticals Inc.   857,417   1,509   Biosciences Inc.   365,704   1,013   4,961   Novectis Inc.   507,760   1,485   Cara   Therapeutics Inc.   1,354,313   1,006   Therapeutics Inc.   1,007,326   1,481   **1   Milestone   Vicarious   Vicarious   Vicarious   Vicarious   Cara   Therapeutics Inc.   1,478,98   999   Xtant Medical   **1   Acurx   Corvus   Corp.   1,447,898   40,400   Corp.   1,447,898   999   Xtant Medical   **1   Acurx   Corp.   1,447,898   40,400   Corp.   1,447,898   40,40			1,187,908	1,651				
* Pyxis Oncology Inc. 903,923	7,1		400 700	1 601			303,047	1,130
**Clearside Biomedical Inc. 1,383,654 1,619 **1 enVVeno Medical Corp. 216,998 1,115  **I Greenwich Lifesciences Inc. 153,459 1,614 **NGM Biopharmaceuticals Inc. 1,269,403 1,096  **I Eyenovia Inc. 775,664 1,613 Biopharmaceuticals Inc. 1,269,403 1,090  **Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 411,201 1,090  **Therapeutics Inc. 309,500 1,523 **Dianthus Dianthus Di	*	•			*,1		440 700	4 400
Biomedical Inc.			903,923	1,627	* 1		410,782	1,130
**.1 Greenwich Lifesciences Inc. 153,459 1,614 * NGM  **.1 Eyenovia Inc. 775,664 1,613 Biopharmaceuticals Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 309,500 1,523 Dianthus  ** Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  **.1 Acrivon Therapeutics Inc. 119,269 1,521 Therapeutics Inc. 103,857 1,080  **.2 Curis Inc. 119,269 1,521 Therapeutics Inc. 103,857 1,080  **Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **Corvus Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  **1 Beyond Air Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010  **Forian Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006  **Therapeutics Inc. 1,007,326 1,481 Therapeutics Inc. 1,447,898 999  **Xtant Medical**			1 383 654	1 619	,,		216 998	1 115
Lifesciences Inc. 153,459 1,614 NGM  *I Eyenovia Inc. 775,664 1,613 Biopharmaceuticals Inc. 1,269,403 1,090 Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 411,201 1,090 Therapeutics Inc. 309,500 1,523 Dianthus  *Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  *I Curis Inc. 119,269 1,521 IRIDEX Corp. 373,047 1,048  *Passage Bio Inc. 1,496,581 1,512 Vicarious  *Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  *I Corvus Cellectar Biosciences Inc. 365,704 1,013  *I Beyond Air Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010  *Forian Inc. 507,760 1,485 Cara Therapeutics Inc. 1,354,313 1,006  *Therapeutics Inc. 1,007,326 1,481 Milestone  *Xtant Medical Signature Inc. 1,447,898 999  *Xtant Medical Signature Inc. 1,007,526 1,445 Scientific Inc. 1,447,898 999  *Xtant Medical Signature Inc. 1,007,526 1,445 Scientific Inc. 1,447,898 999	*,1		1,000,001	1,010	*			
*.1 Eyenovia Inc. 775,664 1,613 Biopharmaceuticals * Cyteir Therapeutics Inc. 517,703 1,574 Design *.1 Acrivon Therapeutics Inc. 309,500 1,523 Dianthus * Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080 *.1 Curis Inc. 119,269 1,521 *.1 IRIDEX Corp. 373,047 1,048 * Passage Bio Inc. 1,496,581 1,512 *.1 Vicarious * Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046 *.1 Corvus Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013 *.1 Beyond Air Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010 * Forian Inc. 507,760 1,485 Cara * Spero Therapeutics Inc. 1,007,326 1,481 *.1 Milestone * CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999 * Xtant Medical			153,459	1,614	*		250,110	1,000
Therapeutics Inc. 517,703 1,574 Design Therapeutics Inc. 309,500 1,523 Dianthus  **Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  **I Curis Inc. 119,269 1,521 Therapeutics Inc. 103,857 1,080  **Passage Bio Inc. 1,496,581 1,512 Tolerapeutics Inc. 103,857 1,080  **Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **I Corvus Therapeutics Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  **I Beyond Air Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010  **Forian Inc. 507,760 1,485 Cara Therapeutics Inc. 1,007,326 1,481 Therapeutics Inc. 1,007,326 1,481 Therapeutics Inc. 1,447,898 999  **Xtant Medical**	*,1	Eyenovia Inc.	775,664	1,613				
*.1 Acrivon Therapeutics Inc. 309,500 1,523 * Dianthus  * Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  *.1 Curis Inc. 119,269 1,521 *.1 IRIDEX Corp. 373,047 1,048  * Passage Bio Inc. 1,496,581 1,512 *.1 Vicarious  * Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  *.1 Corvus Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  *.1 Beyond Air Inc. 763,374 1,496 * Aadi Bioscience Inc. 499,926 1,010  * Forian Inc. 507,760 1,485 Cara Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  * CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical	*	Cyteir				Inc.	1,269,403	1,090
Therapeutics Inc. 309,500 1,523 * Dianthus  * Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  * Curis Inc. 119,269 1,521 *.1 IRIDEX Corp. 373,047 1,048  * Passage Bio Inc. 1,496,581 1,512 *.1 Vicarious  * Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  * Corvus  Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  * Beyond Air Inc. 763,374 1,496 * Aadi Bioscience Inc. 499,926 1,010  * Forian Inc. 507,760 1,485 Cara  * Spero  Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  * CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical		Therapeutics Inc.	517,703	1,574	*			
** Rallybio Corp. 636,414 1,521 Therapeutics Inc. 103,857 1,080  **1 Curis Inc. 119,269 1,521 *.1 IRIDEX Corp. 373,047 1,048  ** Passage Bio Inc. 1,496,581 1,512 *.1 Vicarious  ** Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **1 Corvus  Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  **1 Beyond Air Inc. 763,374 1,496 *Aadi Bioscience Inc. 499,926 1,010  ** Forian Inc. 507,760 1,485 Cara  ** Spero  Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  **1 CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  ** Xtant Medical	*,1					'	411,201	1,090
*.1         Curis Inc.         119,269         1,521         *.1         IRIDEX Corp.         373,047         1,048           * Passage Bio Inc.         1,496,581         1,512         *.1         Vicarious         1,048           * Nuvectis Pharma Inc.         181,040         1,510         Surgical Inc. Class A 2,852,321         1,046           *.1         Corvus         *.1         Cellectar         Biosciences Inc.         365,704         1,013           *.1         Beyond Air Inc.         763,374         1,496         * Aadi Bioscience Inc.         499,926         1,010           * Forian Inc.         507,760         1,485         * Cara         Therapeutics Inc.         1,354,313         1,006           * Spero         Therapeutics Inc.         1,007,326         1,481         *.1         Milestone           *.1         CytoSorbents Corp.         1,302,216         1,445         Scientific Inc.         1,447,898         999           * Xtant Medical         *.1         Acurx         *.1         Acurx					*			
** Passage Bio Inc. 1,496,581 1,512 *.1 Vicarious  ** Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  **.1 Corvus		, ,						,
** Nuvectis Pharma Inc. 181,040 1,510 Surgical Inc. Class A 2,852,321 1,046  *.1 Corvus Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  *.1 Beyond Air Inc. 763,374 1,496 * Aadi Bioscience Inc. 499,926 1,010  * Forian Inc. 507,760 1,485 * Cara							3/3,04/	1,048
*.1 Corvus Pharmaceuticals Inc. 857,417 1,509 Beyond Air Inc. 763,374 1,496 Aadi Bioscience Inc. 499,926 1,010 Forian Inc. 507,760 1,485 Cara Spero Therapeutics Inc. 1,007,326 1,481 *.1 Milestone CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999 Xtant Medical *.1 Cellectar Biosciences Inc. 365,704 1,013 Cara Therapeutics Inc. 1,354,313 1,006 Scientific Inc. 1,447,898 999				, -	^,1		2 052 221	1 046
Pharmaceuticals Inc. 857,417 1,509 Biosciences Inc. 365,704 1,013  *1 Beyond Air Inc. 763,374 1,496 * Aadi Bioscience Inc. 499,926 1,010  * Forian Inc. 507,760 1,485 * Cara			181,040	1,510	* 1		2,852,321	1,046
*.1 Beyond Air Inc. 763,374 1,496 * Aadi Bioscience Inc. 499,926 1,010  * Forian Inc. 507,760 1,485 * Cara	, 1		857/17	1 500	,.		365 704	1 013
* Forian Inc. 507,760 1,485 * Cara Therapeutics Inc. 1,354,313 1,006  * Spero Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  *.1 CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical *.1 Acurx	*.1				*			
* Spero Therapeutics Inc. 1,354,313 1,006 Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  *.1 CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical *.1 Acurx		,			*		.00,020	1,010
Therapeutics Inc. 1,007,326 1,481 *.1 Milestone  *.1 CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical *.1 Acurx	*		557,760	1,400			1,354,313	1,006
*.1 CytoSorbents Corp. 1,302,216 1,445 Scientific Inc. 1,447,898 999  * Xtant Medical *.1 Acurx			1,007,326	1,481	*,1	Milestone		
* Xtant Medical *,1 Acurx	*,1						1,447,898	999
Holdings Inc. 1,278,952 1,445 Pharmaceuticals Inc. 260,850 999	*			•	*,1			
		Holdings Inc.	1,278,952	1,445		Pharmaceuticals Inc.	260,850	999

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	NanoString			*	NextCure Inc.	530,127	604
	Technologies Inc.	1,330,066	995	*	Lumos Pharma Inc.	187,322	586
*	LENSAR Inc.	282,930	993	*	AIM		
*,1	Leap				ImmunoTech Inc.	1,311,599	577
	Therapeutics Inc.	235,604	977	*	Celularity Inc. Class A	2,316,900	573
*,1	Movano Inc.	1,233,783	964	*	Microbot		
*,1	Dyadic				Medical Inc.	348,549	572
	International Inc.	596,383	960	*,1	Clene Inc.	1,911,118	567
*,1	Cognition			*,1	TherapeuticsMD Inc.	249,657	562
	Therapeutics Inc.	517,783	958	*,1	Biomerica Inc.	440,355	550
*	Reneo			*,1	Singular Genomics		
	Pharmaceuticals Inc.	596,113	954		Systems Inc.	1,180,133	543
*	Precision			*	Synlogic Inc.	139,449	537
	BioSciences Inc.	2,436,960	890	*	Protara		
*	PAVmed Inc.	213,896	881		Therapeutics Inc.	284,301	532
*,1	Accelerate			*	ARCA biopharma Inc.	312,166	531
	Diagnostics Inc.	223,456	876	*	Moleculin		
*,1	Bolt	747004			Biotech Inc.	616,108	529
	Biotherapeutics Inc.	747,881	838	*	ElectroCore Inc.	91,007	527
	Rezolute Inc.	841,974	836	*,1	Incannex		
*,1	Eledon	450.000			Healthcare Inc.	112,351	521
	Pharmaceuticals Inc.	459,998	828	*	Turnstone Biologics		
*,1	Homology				Corp.	200,545	510
	Medicines Inc.	1,354,738	824	*	Eliem		
*,1	Bright Health	104 071	700		Therapeutics Inc.	189,734	509
	Group Inc.	104,371	796	*,1	Elutia Inc.	233,593	505
_	Minerva	100.000	700	*,1	Biora		
*,1	Neurosciences Inc.	128,899	793		Therapeutics Inc.	372,034	502
-, 1	SELLAS Life	742,353	787		Psychemedics Corp.	165,415	490
*,1	Sciences Group Inc.	742,303	/0/	*	Cumberland		
- '	BioSig Technologies Inc.	1,638,452	778		Pharmaceuticals Inc.	280,820	489
*,1	Fortress Biotech Inc.		778 778	*	Neurogene Inc.	24,677	478
*,1	Marker	258,336	//0	*,1	Aligos		
, '	Therapeutics Inc.	135,408	745		Therapeutics Inc.	712,990	473
*	HeartBeam Inc.	315,883	743 742	*	Retractable		
*	Biodesix Inc.	400,114	736		Technologies Inc.	421,212	468
*,1	Dare Bioscience Inc.		734	*,1	Viracta		
*	Societal CDMO Inc.	2,375,133	734 724		Therapeutics Inc.	813,922	464
*		2,064,292		*,1	Aspira Women's	440.500	
*,1	ImmuCell Corp.	139,968	707	*	Health Inc.	113,506	463
-, 1	Quince	662 210	697	*	Elevation	054.050	450
*,1	Therapeutics Inc. UNITY	663,318	097	* 1	Oncology Inc.	854,850	459
, '	Biotechnology Inc.	357,567	690	*,1	NRX	070 001	450
*	Corbus	357,567	090	*	Pharmaceuticals Inc.	978,921	450
	Pharmaceuticals				Sonida Senior	46 207	448
	Holdings Inc.	112,022	677		Living Inc.	46,397	448
*,1	Checkpoint	112,022	077		Intensity Thoronoution Inc.	E2 001	446
,	Therapeutics Inc.	293,542	672	*	Therapeutics Inc.	52,091	440
*	Instil Bio Inc.	85,903	655		Rapid Micro		
*	Exagen Inc.	326,266	649		Biosystems Inc. Class A	594,568	440
*,1	Context	320,200	040	*,1	Alaunos	334,300	440
,.	Therapeutics Inc.	573,400	648	,.	Therapeutics Inc.	6,058,963	428
*,1	Science 37	575,400	040	*,1	Bright Green Corp.	1,286,273	425
, .	Holdings Inc.	118,985	635	*,1	Cano Health Inc.	71,958	423
*,1	Rain Oncology Inc.	518,612	622	*	Crvo-Cell	71,300	422
*,1	Ekso Bionics	310,012	022		International Inc.	72,821	419
,.	Holdings Inc.	243,385	608		micinational IIIC.	12,021	419
	. rolalingo IIIo.	2 10,000	000				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Cogimot		(4444)	*,1	Organovo		(4000)
,.	Sagimet Biosciences Inc.			,.	Holdings Inc.		
	Class A	76,983	417		Class A	238,972	265
*	Equillium Inc.	570,835	413	*,1	Molecular	200,072	200
*,1	SAB	370,033	410	,.	Templates Inc.	71,577	265
,.	Biotherapeutics Inc.	598,672	412	*,1	Vivani Medical Inc.	258,649	264
*,1	Candel	330,072	412	*,1	BrainStorm Cell	230,043	204
,.	Therapeutics Inc.	279,875	411	,.	Therapeutics Inc.	951,371	260
*	Cue Health Inc.	2,505,948	407	*	Genprex Inc.		259
*		739,563	407	*,1	MyMD	1,127,694	255
*,1	Xilio Therapeutics Inc.	739,503	407	,.	Pharmaceuticals Inc.	986,327	255
, '	Indaptus	229,197	406	*	Upexi Inc.		248
*,1	Therapeutics Inc.			*,1		214,062	240
*,1	CareCloud Inc.	266,292	405	, '	Predictive	60.207	228
-,1	Lucid	206.266	404	*,1	Oncology Inc.	69,297	
* 4	Diagnostics Inc.	286,266	404		Modular Medical Inc.	115,726	211
*,1	Durect Corp.	684,963	404		Regulus	104 700	011
*,1	Forte	407.400		* 4	Therapeutics Inc.	164,709	211
	Biosciences Inc.	487,429	401	*,1	Senti		
*	Vincerx Pharma Inc.	334,111	394		Biosciences Inc. Class A	220 152	211
*,1	Lipocine Inc.	141,076	389	*		320,153	211
*,1	Oncocyte Corp.	153,986	382		PharmaCyte	00.410	200
*,1	Alimera Sciences Inc.	87,394	378	* 1	Biotech Inc.	96,416	208
*,1	Immix			*,1 *	IN8bio Inc.	150,136	207
	Biopharma Inc.	52,979	367		HCW Biologics Inc.	167,691	205
*	Kineta Inc.	99,876	355	*,1	GT Biopharma Inc.	766,308	195
*	Nephros Inc.	102,105	352	*,1	vTv Therapeutics Inc.		
*,1	Hepion				Class A	15,627	180
	Pharmaceuticals Inc.	104,005	340	*,1	Longeveron Inc.		
*,1	Cyclo				Class A	125,885	171
	Therapeutics Inc.	211,053	336	*	AgeX		
*	Coya				Therapeutics Inc.	426,190	164
	Therapeutics Inc.	44,096	327	*	Armata		
*,1	Strata Skin				Pharmaceuticals Inc.	50,136	162
	Sciences Inc.	593,248	326	*,1	BioVie Inc. Class A	128,489	162
*	Cocrystal			*,1	GeoVax Labs Inc.	439,870	159
	Pharma Inc.	191,359	325	*,1	MiNK		
*,1	Lisata				Therapeutics Inc.	148,229	159
	Therapeutics Inc.	118,336	323	*	TFF		
*	Seelos				Pharmaceuticals Inc.	22,507	158
	Therapeutics Inc.	224,893	313	*	Mustang Bio Inc.	104,168	141
*,1	NanoViricides Inc.	300,189	306	*,1	eFFECTOR		
*,1	Sensei	,			Therapeutics Inc.	300,033	140
	Biotherapeutics Inc.	441,585	306	*	Talis Biomedical		
*	ATI Physical	,			Corp.	18,267	136
	Therapy Inc.	49,713	305	*	Surrozen Inc.	13,278	126
*,1	BioCardia Inc.	457,496	304	*	Precipio Inc.	19,779	125
*	Anebulo	107,100		*,1	Telesis Bio Inc.	307,523	123
	Pharmaceuticals Inc.	121,000	293	*	Precision Optics	, ,	
*	Dominari	121,000	200		Corp. Inc.	19,998	123
	Holdings Inc.	111,013	288	*,1	Tonix	,	
*	Orgenesis Inc.	566,688	284		Pharmaceuticals		
*	Neumora	300,000	204		Holding Corp.	297,302	120
	Therapeutics Inc.	16,451	281	*,1	Sientra Inc.	181,333	111
*,1	· ·	10,401	201	*,1	MAIA	101,000	1111
, 1	Eiger BioPharmaceuticals			,.	Biotechnology Inc.	93,500	109
	Inc.	1,244,467	279	*	Know Labs Inc.		103
*,1		1,244,40/	2/3	*	Eargo Inc.	211,143	
, '	Onconova Therapeutics Inc.	365,661	273	*	0	40,636	105
	merapeutics inc.	303,001	2/3		Nutriband Inc.	41,970	98

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Aravive Inc.	779,481	96		Lockheed Martin		
*,1	Inhibikase	,			Corp.	7,781,461	3,526,869
	Therapeutics Inc.	75,629	96		Deere & Co.	8,138,787	3,254,457
*	Journey Medical				American Express		
	Corp.	15,723	91		Co.	17,154,973	3,213,813
*	American Shared				Eaton Corp. plc	12,546,651	3,021,484
	Hospital Services	36,859	88		Automatic Data		
*,1	AcelRx	110.070	00		Processing Inc.	12,902,739	3,005,951
*,1	Pharmaceuticals Inc Finch Therapeutics	. 112,873	83	_	Fiserv Inc.	18,841,756	2,502,939
,,	Group Inc.	22,530	81		Illinois Tool Works Inc.	0.052.776	2 245 252
*,1	Theriva Biologics Inc.	172,086	74		Sherwin-Williams Co.	8,953,776	2,345,352
*,1	Atreca Inc. Class A	485,847	64				2,255,117
*	Champions	403,047	04	*	CSX Corp.	62,017,878	2,150,160
	Oncology Inc.	11,573	63		PayPal Holdings Inc. General Dynamics	33,872,041	2,080,082
*,1	Novo Integrated	11,070	00		Corp.	7,708,880	2,001,765
	Sciences Inc.	77,105	63		Northrop Grumman	1,700,000	2,001,700
*,1	Star Equity	•			Corp.	4,262,306	1,995,356
	Holdings Inc.	53,681	55		3M Co.	17,337,401	1,895,325
*	iSpecimen Inc.	98,114	49		Parker-Hannifin Corp.		1,860,213
*,1	NightHawk				FedEx Corp.	7,097,384	1,795,425
	Biosciences Inc.	107,297	47		Emerson Electric Co.		1,742,883
*	Venus Concept Inc.	37,158	43		Trane Technologies	17,000,012	1,712,000
*,2	Impact				plc	7,143,049	1,742,190
	BioMedical Inc.				Norfolk Southern	, .,.	, , ,
	(Registered)	5,171,052	33		Corp.	7,102,500	1,678,889
*,1	Vaccinex Inc.	35,633	24		TransDigm Group Inc.	1,651,003	1,670,155
*,1	Aprea				Cintas Corp.	2,713,465	1,635,297
	Therapeutics Inc.	4,990	23		PACCAR Inc.	16,424,461	1,603,849
_	KALA BIO Inc.	907	6		Carrier Global Corp.	26,379,345	1,515,493
	Coeptis Therapeutics	7050	6		Capital One Financial		
*	Holdings Acorda	7,950	6		Corp.	11,354,942	1,488,860
	Therapeutics Inc.	370	5	*	Block Inc. Class A	17,397,837	1,345,723
*,1,2	Synergy	370	3		L3Harris		
	Pharmaceuticals LL(	. 5 148 145	_		Technologies Inc.	5,964,325	1,256,206
*,2	OmniAb Inc. 12.5	3 0,1 10,1 10			Old Dominion Freight		
	Earnout	186,267	_		Line Inc.	3,085,860	1,250,792
*,2	OmniAb Inc. 15				Ferguson plc	6,395,035	1,234,689
	Earnout	186,267	_		Johnson Controls	01 000 007	1 000 000
		_	175,231,349		International plc	21,332,887	1,229,628
Indus	strials (13.1%)		173,231,043		United Rentals Inc.	2,130,772	1,221,827
maas	Visa Inc. Class A	49,161,229	12,799,126		Paychex Inc. AMETEK Inc.	10,204,499	1,215,458
	Mastercard Inc.	10,101,220	12,700,120		WW Grainger Inc.	7,233,454	1,192,724
	Class A	26,261,902	11,200,964		•	1,400,571	1,160,639
	Accenture plc		,,		Otis Worldwide Corp. Rockwell	12,819,033	1,146,919
	Class A	19,693,641	6,910,696		Automation Inc.	3,602,718	1,118,572
*	Boeing Co.	18,995,096	4,951,262		PPG Industries Inc.	7,410,874	1,110,372
	Caterpillar Inc.	15,980,540	4,724,966		Verisk Analytics Inc.	7,410,074	1,100,230
	Union Pacific Corp.	19,125,414	4,697,584		Class A	4,544,939	1,085,604
	General Electric Co.	34,192,214	4,363,952		Cummins Inc.	4,445,252	1,064,949
	Honeywell				Quanta Services Inc.	4,571,620	986,556
	International Inc.	20,699,356	4,340,862		Ingersoll Rand Inc.	12,738,470	985,193
	RTX Corp.	45,157,308	3,799,536		Martin Marietta	,, 55, 1, 6	230,100
	United Parcel				Materials Inc.	1,938,346	967,060
	Service Inc. Class B	22,672,144	3,564,741		Equifax Inc.	3,877,318	958,822
					Vulcan Materials Co.	4,162,545	944,939
						,,	,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	DuPont de				Nordson Corp.	1,610,023	425,304
	Nemours Inc.	12,162,157	935,635		TransUnion	6,066,423	416,824
*	Keysight			*	Trimble Inc.	7,797,185	414,810
	Technologies Inc.	5,489,430	873,313		Owens Corning	2,780,589	412,167
	Fidelity National				AECOM	4,270,648	394,736
	Information	14 450 000	000 570		Lincoln Electric		
	Services Inc.	14,459,338	868,572		Holdings Inc.	1,803,568	392,204
*	Xylem Inc.	7,589,530	867,939		Pentair plc	5,168,650	375,813
	Fair Isaac Corp.	735,800	856,479		Jack Henry &		
	Mettler-Toledo International Inc.	690 600	025 551		Associates Inc.	2,289,612	374,145
	Fortive Corp.	680,609 11,037,637	825,551	*	TopBuild Corp.	993,761	371,925
	Global Payments Inc.	6,382,137	812,701	*	Saia Inc.	831,141	364,223
	Westinghouse Air	0,302,137	810,531		Crown Holdings Inc.	3,785,508	348,607
	Brake Technologies				Allegion plc	2,748,722	348,236
	Corp.	5,623,695	713,647		Westrock Co.	8,060,395	334,668
	Howmet	2,020,000	,		Advanced Drainage	0.007040	007044
	Aerospace Inc.	12,952,631	700,996		Systems Inc.	2,327,318	327,314
	Dover Corp.	4,380,164	673,713		Huntington Ingalls	1 050 546	00E 011
*	Teledyne			*	Industries Inc.	1,252,546	325,211
	Technologies Inc.	1,485,955	663,167		Affirm Holdings Inc. Class A	6,475,512	318,207
*	Builders				EMCOR Group Inc.	1,475,815	317,935
	FirstSource Inc.	3,875,784	647,023		A O Smith Corp.	3,847,110	317,935
*	FleetCor				Toro Co.	3,270,698	313,954
	Technologies Inc.	2,157,390	609,700		Regal Rexnord Corp.	2,085,500	308,696
*	Waters Corp.	1,851,713	609,639		nVent Electric plc	5,214,751	308,140
	Veralto Corp.	7,355,556	605,068		ITT Inc.	2,573,973	307,126
	Expeditors			*	XPO Inc.	3,456,853	302,786
	International of	4 550 400	E70 011		Fortune Brands	3,450,655	302,760
*	Washington Inc.	4,550,400	578,811		Innovations Inc.	3,975,372	302,685
	Axon Enterprise Inc.	2,228,508	575,690		CH Robinson	0,070,072	302,003
	Ball Corp.	9,897,934	569,329		Worldwide Inc.	3,469,735	299,750
	Hubbell Inc. Class B	1,680,691	552,830	*	Trex Co. Inc.	3,410,508	282,356
	Booz Allen Hamilton				WESCO	-, ,	
	Holding Corp. Class A	4,103,391	524,865		International Inc.	1,608,522	279,690
	JB Hunt Transport	4,100,001	324,003		Tetra Tech Inc.	1,667,432	278,344
	Services Inc.	2,592,145	517,755		Knight-Swift		
	IDEX Corp.	2,368,862	514,304		Transportation		
	Jacobs Solutions Inc.		512,140		Holdings Inc.		
	Textron Inc.	6,147,423	494,376		Class A	4,811,777	277,399
	Synchrony Financial	12,942,016	494,256		Robert Half Inc.	3,133,597	275,506
	Carlisle Cos. Inc.	1,531,899	478,611		Curtiss-Wright Corp.	1,202,484	267,901
	Snap-on Inc.	1,654,023	477,748		Simpson		
	Stanley Black &	, ,	,		Manufacturing Co.	1 220 000	OCE 11E
	Decker Inc.	4,817,212	472,568	*	Inc. WEX Inc.	1,339,098	265,115
	Masco Corp.	7,020,867	470,258	*		1,341,277	260,945
	Graco Inc.	5,303,248	460,110		BILL Holdings Inc.	3,168,013	258,478
	Packaging Corp. of			*	Woodward Inc.	1,881,834	256,174
	America	2,811,341	457,996		WillScot Mobile Mini Holdings Corp.	5,734,476	255,184
	Watsco Inc.	1,062,287	455,158		AptarGroup Inc.	2,059,579	253,164
	RPM			*	AptarGroup inc. Generac	2,000,078	204,000
	International Inc.	4,050,066	452,109		Holdings Inc.	1,936,201	250,235
	HEICO Corp. Class A	3,156,132	449,559	*	Middleby Corp.	1,689,281	248,611
	Lennox				Donaldson Co. Inc.	3,799,667	248,308
	International Inc.	1,000,356	447,679		AGCO Corp.	2,002,968	243,180
*	Zebra Technologies	1 010 100	440.047		300 со.р.	_,002,000	2 .3,100
	Corp. Class A	1,613,130	440,917				

		Shares	Market Value•			Shares	Market Value• (\$000)
		Sildles	(\$000)	*		Sildies	(2000)
	Graphic Packaging Holding Co.	9,619,485	237,120	_	ExlService Holdings Inc.	4,952,750	152,792
*	Axalta Coating	3,013,403	237,120		AAON Inc.	2,065,185	152,752
	Systems Ltd.	6,950,605	236,112	*	MasTec Inc.	1,989,900	152,555
	Berry Global	0,000,000	200,112		Ryder System Inc.	1,303,300	150,424
	Group Inc.	3,454,285	232,784		Federal Signal Corp.	1,933,564	148,382
	Comfort Systems	-,,	,	*	Kirby Corp.	1,867,841	146,588
	USA Inc.	1,121,465	230,652		Louisiana-Pacific	1,007,041	140,566
*	API Group Corp.	6,622,280	229,131		Corp.	2,029,306	143,736
*	GXO Logistics Inc.	3,725,476	227,850	*	Summit	2,020,000	110,700
	Cognex Corp.	5,431,807	226,724		Materials Inc.		
*	FTI Consulting Inc.	1,123,121	223,670		Class A	3,730,080	143,459
	Oshkosh Corp.	2,052,249	222,484		MSC Industrial Direct		
	Eagle Materials Inc.	1,093,690	221,844		Co. Inc. Class A	1,410,861	142,864
	BWX		•		Badger Meter Inc.	919,945	142,012
	Technologies Inc.	2,874,120	220,531	*	Euronet		
	Landstar System Inc.	1,123,765	217,617		Worldwide Inc.	1,391,863	141,260
*	Paylocity Holding				Exponent Inc.	1,600,869	140,941
	Corp.	1,317,553	217,199		Air Lease Corp.		
	MKS				Class A	3,299,684	138,389
	Instruments Inc.	2,103,748	216,413		HB Fuller Co.	1,696,560	138,117
*	Fluor Corp.	5,382,618	210,837	*	SPX Technologies Inc.	1,361,272	137,502
	Brunswick Corp.	2,173,615	210,297		Installed Building		
	Applied Industrial				Products Inc.	751,953	137,472
	Technologies Inc.	1,212,155	209,327		Armstrong World		
	Littelfuse Inc.	781,738	209,162		Industries Inc.	1,373,045	134,998
	Acuity Brands Inc.	978,607	200,448		Western Union Co.	11,305,217	134,758
	MSA Safety Inc.	1,172,240	197,909	*	Shift4 Payments Inc.		
	Genpact Ltd.	5,677,082	197,052		Class A	1,803,814	134,096
*	Atkore Inc.	1,179,645	188,743		GATX Corp.	1,109,705	133,409
*	Core & Main Inc.			*	ASGN Inc.	1,384,045	133,104
	Class A	4,556,433	184,125		Moog Inc. Class A	903,945	130,873
*	ATI Inc.	4,036,679	183,548		EnerSys	1,287,262	129,962
*	Chart Industries Inc.	1,340,271	182,719		Insperity Inc.	1,095,357	128,398
	Watts Water				Zurn Elkay Water	4 0 40 000	107007
	Technologies Inc.	004 074	470 450		Solutions Corp.	4,346,362	127,827
	Class A	861,374	179,459		MDU Resources	6 070 160	106 200
	Sensata Technologies	4 772 420	170 220		Group Inc.	6,378,160	126,288
	Holding plc	4,773,439	179,338		Herc Holdings Inc.	843,483	125,586
*	Crane Co. Mohawk	1,516,964	179,214		ManpowerGroup Inc. FTAI Aviation Ltd.	1,549,825	123,165
	Industries Inc.	1,697,249	175,665		Franklin Electric Co.	2,651,151	123,013
	Sonoco Products Co.	3,071,043	173,603		Inc.	1,245,465	120,374
*	AZEK Co. Inc.	3,071,043	171,575	*	Knife River Corp.		117,470
	Class A	4,460,705	170,622		HEICO Corp.	1,775,012 654,552	117,470
	Flowserve Corp.	4,105,918	169,246		Brink's Co.	1,324,343	116,476
	Vontier Corp.	4,860,826	167,942		Matson Inc.	1,060,722	116,255
	Sealed Air Corp.	4,526,984	165,325		Terex Corp.	2,014,965	115,780
	Allison Transmission	4,020,004	100,020	*	Spirit AeroSystems	2,014,905	115,760
	Holdings Inc.	2,798,549	162,736		Holdings Inc.		
	Maximus Inc.	1,901,331	159,446		Class A	3,597,853	114,340
	Esab Corp.	1,795,188	155,499		Silgan Holdings Inc.	2,474,104	111,953
	Valmont	.,. 55,100	.55, 100	*	Verra Mobility Corp.	_, 1, 10 +	,000
	Industries Inc.	665,601	155,424		Class A	4,847,621	111,641
*	Beacon Roofing	/ '	, /		Otter Tail Corp.	1,306,480	111,012
	Supply Inc.	1,783,310	155,184	*	Itron Inc.	1,420,982	107,298
			•		Hillenbrand Inc.	2,239,011	107,137
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		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	AeroVironment Inc.	838,771	105,719	*	Gibraltar		
*	ACI Worldwide Inc.	3,395,998	103,713		Industries Inc.	988,085	78,039
*	TriNet Group Inc.	872,127	103,722		ADT Inc.	11,042,433	75,309
*	Margeta Inc. Class A		103,722		Mueller Water	,0 .2, .00	, 0,000
*,1	Aurora	14,043,334	103,043		Products Inc.		
,.	Innovation Inc.				Class A	4,910,327	70,709
	Class A	23,673,451	103,453		Granite		
	Kadant Inc.	367,507	103,016		Construction Inc.	1,378,302	70,100
	Enpro Inc.	656,503	102,900		Trinity Industries Inc.	2,601,392	69,171
*	GMS Inc.	1,243,622	102,512	*	OSI Systems Inc.	527,329	68,052
	CSW Industrials Inc.	491,371	101,915	*,1	Joby Aviation Inc.	10,165,192	67,599
*	Dycom	101,071	101,010		Alamo Group Inc.	320,750	67,418
	Industries Inc.	879,131	101,179		Patrick Industries Inc.	665,868	66,820
	Encore Wire Corp.	471,228	100,654	*	Gates Industrial Corp.		
	Korn Ferry	1,688,993	100,242		plc	4,973,804	66,748
	John Bean	.,,	,	*	PGT Innovations Inc.	1,639,775	66,739
	Technologies Corp.	1,001,457	99,595	*	AAR Corp.	1,044,223	65,160
	Belden Inc.	1,280,052	98,884		Kennametal Inc.	2,510,741	64,752
	Albany International	,,	,		International		
	Corp. Class A	981,654	96,418		Seaways Inc.	1,402,851	63,802
	ESCO			*	Mercury		
	Technologies Inc.	813,320	95,183		Systems Inc.	1,735,610	63,471
*,1	Bloom Energy Corp.			*	Hayward		
	Class A	6,400,837	94,732		Holdings Inc.	4,505,474	61,274
*	Alight Inc. Class A	11,026,060	94,052	*	AvidXchange		
*	CBIZ Inc.	1,493,595	93,484		Holdings Inc.	4,909,739	60,832
	ABM Industries Inc.	2,069,008	92,754	-	Masterbrand Inc.	4,058,821	60,273
*	Modine				Standex International	070 500	00 110
	Manufacturing Co.	1,551,325	92,614		Corp.	379,590	60,119
	McGrath RentCorp	766,858	91,732		Mirion		
*	AMN Healthcare				Technologies Inc. Class A	5,790,755	59,355
	Services Inc.	1,184,561	88,700	*	Masonite	3,730,733	33,333
	UniFirst Corp.	475,839	87,036		International Corp.	696,945	59,003
	Werner	0.047.074	00 705	*	Hillman Solutions	000,010	00,000
	Enterprises Inc.	2,047,074	86,735		Corp.	6,384,493	58,801
	Vestis Corp.	4,092,494	86,515	*	Huron Consulting	.,,	,
	ArcBest Corp.	719,604	86,504		Group Inc.	571,594	58,760
*	Crane NXT Co.	1,511,205	85,942	*	Construction		
*	RXO Inc.	3,675,662	85,496		Partners Inc.		
	Hub Group Inc. Class A	929,525	OE 161		Class A	1,299,192	56,541
	EVERTEC Inc.		85,461	*	NCR Atleos Corp.	2,300,517	55,880
*	Resideo	2,065,778	84,573		Enerpac Tool Group		
	Technologies Inc.	4,411,658	83,027		Corp. Class A	1,784,191	55,470
	Griffon Corp.	1,353,941	82,523		Primoris Services	4 000 074	FF 007
*	Flywire Corp.	3,528,738	81,690		Corp.	1,662,971	55,227
*	Kratos Defense &	3,320,730	01,030		Greif Inc. Class A	837,914	54,959
	Security				Tennant Co.	568,086	52,656
	Solutions Inc.	4,024,600	81,659		Forward Air Corp.	831,073	52,250
*	Remitly Global Inc.	4,150,145	80,596		H&E Equipment	OOF COT	E1 E00
*	Sterling	, ,	,	*	Services Inc.	985,625	51,568
	Infrastructure Inc.	915,171	80,471	*,1	Leonardo DRS Inc.	2,572,522	51,553
	Brady Corp. Class A	1,366,372	80,192	, 1	Enovix Corp.	4,092,703	51,241
*	O-I Glass Inc.	4,837,829	79,244		Bread Financial Holdings Inc.	1,547,275	50,967
	ICF International Inc.		79,189	*	NV5 Global Inc.	450,683	50,967
*	MYR Group Inc.	540,799	78,216	*	Legalzoom.com Inc.	4,423,719	49,988
	•	•	•		Barnes Group Inc.		
					Darries Group IIIC.	1,507,243	49,181

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	CoreCivic Inc.	3,380,191	49,114	*	ZipRecruiter Inc.		
*	American Woodmark	0,000,101	45,114		Class A	1,957,712	27,212
	Corp.	520,003	48,282		VSE Corp.	407,011	26,297
*	Donnelley Financial	,	-,		First Advantage Corp.		26,163
	Solutions Inc.	766,118	47,783		Powell Industries Inc.	282,335	24,958
*	JELD-WEN			*	Cross Country	,	,
	Holding Inc.	2,523,083	47,636		Healthcare Inc.	1,087,862	24,629
*	Janus International				Barrett Business		
	Group Inc.	3,613,805	47,160		Services Inc.	211,351	24,474
	Helios				Gorman-Rupp Co.	674,820	23,976
	Technologies Inc.	1,024,698	46,470	*	Blue Bird Corp.	859,376	23,169
*,1	Rocket Lab USA Inc.	8,353,301	46,194	*	International Money		
	Lindsay Corp.	349,443	45,134		Express Inc.	1,047,443	23,138
	Greenbrier Cos. Inc.	982,764	43,419	*	Titan		
	AZZ Inc.	742,578	43,136		International Inc.	1,526,933	22,721
*	Triumph Group Inc.	2,536,121	42,049		Hyster-Yale Materials		
	Kforce Inc.	621,799	42,009		Handling Inc.	361,598	22,488
*	Payoneer Global Inc.	7,851,095	40,904	*	CryoPort Inc.	1,449,481	22,452
*,1	Symbotic Inc. Class A	784,229	40,254	*	Ducommun Inc.	421,727	21,955
*	Cimpress plc	494,191	39,560		Pitney Bowes Inc.	4,751,486	20,907
	Wabash National				CRA		
	Corp.	1,464,767	37,527		International Inc.	210,751	20,833
	Marten Transport Ltd.	1,772,306	37,183		Myers Industries Inc.	1,064,615	20,813
	Apogee				Insteel Industries Inc.	535,957	20,522
	Enterprises Inc.	679,634	36,299		Heartland		
*	Air Transport Services				Express Inc.	1,428,621	20,372
	Group Inc.	2,058,061	36,242	*	Conduent Inc.	5,553,255	20,269
*,1	Archer Aviation Inc.				Douglas		
	Class A	5,798,126	35,600		Dynamics Inc.	676,869	20,089
	Napco Security				Argan Inc.	427,894	20,021
	Technologies Inc.	1,022,669	35,026		Kelly Services Inc.		
	TriMas Corp.	1,346,325	34,102		Class A	921,762	19,928
	Columbus McKinnon			*	Repay Holdings Corp.		
	Corp.	867,216	33,839		Class A	2,322,791	19,837
*	Aspen Aerogels Inc.	2,091,646	33,006		Kaman Corp.	815,429	19,530
*	Thermon Group			*	IES Holdings Inc.	235,697	18,672
	Holdings Inc.	1,006,633	32,786	*	Titan Machinery Inc.	640,698	18,503
	Quanex Building		00.005		REV Group Inc.	1,017,861	18,495
	Products Corp.	1,048,907	32,065		Cass Information		
Ţ	Proto Labs Inc.	821,262	31,996		Systems Inc.	408,138	18,387
	Vicor Corp.	705,525	31,706	*	Manitowoc Co. Inc.	1,083,726	18,087
	SP Plus Corp.	601,630	30,834		Cadre Holdings Inc.	528,400	17,379
*,1	Nikola Corp.	34,458,847	30,145		Ennis Inc.	789,811	17,305
*	Energy Recovery Inc.	1,596,651	30,081	*,1	PureCycle		
	Schneider				Technologies Inc.	4,248,447	17,206
	National Inc.	4 400 400	00.000		Heidrick & Struggles		
	Class B	1,180,186	30,036		International Inc.	580,522	17,143
*	BlueLinx	050 440	00.047	*	CECO Environmental		
* 1	Holdings Inc.	258,113	29,247		Corp.	843,032	17,097
*,1	Virgin Galactic	11 COC EEO	20 CE7		Mesa	450 400	40.070
*	Holdings Inc.	11,696,553	28,657		Laboratories Inc.	159,129	16,672
	Transcat Inc.	258,027	28,210	*	DXP Enterprises Inc.	478,217	16,116
*	Deluxe Corp.	1,314,727	28,201		Perella Weinberg	1 070 405	15.005
-	Montrose Environmental			*	Partners Class A	1,278,425	15,635
	Group Inc.	864,555	27,778	-	Hudson Tachnologica Inc	1 140 610	15 500
	Astec Industries Inc.	742,110	27,606	*	Technologies Inc.	1,149,613	15,508
	ASIEC MUUSINES MIC.	/ <del>+</del> ∠,110	27,000		Franklin Covey Co.	349,702	15,223

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Resources			*	L B Foster Co.		
	Connection Inc.	1,068,324	15,138		Class A	413,355	9,090
*	Cantaloupe Inc.	2,042,575	15,135		Park Aerospace Corp.	613,019	9,011
*	13 Verticals Inc.				Overseas		
	Class A	707,059	14,968		Shipholding		
*	V2X Inc.	316,924	14,718		Group Inc. Class A	1,689,920	8,906
	Pactiv Evergreen Inc.	1,068,389	14,648	*	TaskUS Inc. Class A	680,818	8,898
*	TrueBlue Inc.	942,024	14,451	*	Moneylion Inc.	139,245	8,729
	National Presto			*	Willdan Group Inc.	399,927	8,598
	Industries Inc.	179,509	14,411	*	Advantage		
*	Great Lakes Dredge				Solutions Inc.	2,262,148	8,189
	& Dock Corp.	1,843,428	14,158	*	Iteris Inc.	1,518,768	7,898
*,1	Atmus Filtration			*	Ranpak Holdings		
	Technologies Inc.	601,023	14,118		Corp. Class A	1,271,849	7,402
*	Astronics Corp.	808,671	14,087	*	Luna Innovations Inc.	1,112,056	7,395
*,1	Evolv Technologies			*	Paymentus		
	Holdings Inc.	2,974,460	14,039		Holdings Inc.		
*	Green Dot Corp.				Class A	408,611	7,302
	Class A	1,377,254	13,635	*	Graham Corp.	377,551	7,162
	Miller Industries Inc.	314,326	13,293	*	SoundThinking Inc.	274,829	7,019
*	Sterling Check Corp.	939,412	13,077		Park-Ohio Holdings		
	United States Lime &				Corp.	258,617	6,972
	Minerals Inc.	54,808	12,625	*	Performant Financial		
*	Limbach				Corp.	2,204,695	6,890
	Holdings Inc.	273,917	12,455	*	Commercial Vehicle		
	FTAI				Group Inc.	969,649	6,797
	Infrastructure Inc.	3,188,200	12,402		Information Services		
*	FARO				Group Inc.	1,420,253	6,689
	Technologies Inc.	546,929	12,322		Kronos		
	TTEC Holdings Inc.	567,356	12,295		Worldwide Inc.	666,260	6,623
*	Vishay Precision			*,1	Microvast		
	Group Inc.	346,096	11,791		Holdings Inc.	4,691,275	6,568
	Shyft Group Inc.	964,741	11,789		Universal Logistics		
	Allient Inc.	388,182	11,727		Holdings Inc.	230,693	6,464
*	Concrete Pumping			*	Blade Air		
	Holdings Inc.	1,403,777	11,511		Mobility Inc.	1,780,179	6,284
*	Daseke Inc.	1,397,196	11,317	*,1	Eos Energy		
*	Custom Truck One				Enterprises Inc.	5,747,383	6,265
	Source Inc.	1,831,243	11,317	*	Quad/Graphics Inc.	1,103,900	5,983
*	AerSale Corp.	886,801	11,258	*	Atlanticus Holdings	450.450	
1	Eagle Bulk				Corp.	150,156	5,807
	Shipping Inc.	202,315	11,208	*	Mistras Group Inc.	778,795	5,701
*	Tutor Perini Corp.	1,210,073	11,012	*	Manitex		
	LSI Industries Inc.	777,330	10,945		International Inc.	640,610	5,599
*	Radiant Logistics Inc.	1,602,191	10,639		Twin Disc Inc.	344,051	5,560
*	BrightView				Karat Packaging Inc.	216,891	5,390
	Holdings Inc.	1,219,101	10,265	*	Gencor		
*	Distribution Solutions				Industries Inc.	332,487	5,366
	Group Inc.	319,072	10,070	*	Acacia Research		
*,1	Bowman Consulting				Corp.	1,364,575	5,349
	Group Ltd. Class A	281,436	9,997	*	CS Disco Inc.	700,982	5,320
*,1	Target Hospitality			*,1	Rekor Systems Inc.	1,590,214	5,295
	Corp.	995,822	9,689	*,1	Desktop Metal Inc.		
	Covenant Logistics				Class A	7,049,819	5,294
	Group Inc. Class A	209,606	9,650	*	Smith-Midland Corp.	132,192	5,222
*	Forrester			*	DLH Holdings Corp.	326,878	5,148
	Research Inc.	359,746	9,645	*	Orion Group		
					Holdings Inc.	939,452	4,641

		-	Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	RCM Technologies Inc.	159,492	4,632	*,1	Wrap Technologies Inc.	672,384	2,084
	ARC Document Solutions Inc.	1,338,175	4,389	*	LS Starrett Co. Class A	166,241	2,012
*	DHI Group Inc.	1,659,630	4,298	*,1	Hyzon Motors Inc.	2,227,561	1,994
*	HireRight Holdings			*	GEE Group Inc.	3,870,957	1,936
	Corp.	312,786	4,207	*	Broadwind Inc.	689,278	1,909
	Hurco Cos. Inc.	194,394	4,185	*,1	Velo3D Inc.	4,791,156	1,905
*	Mayville Engineering			*,1	Workhorse		
	Co. Inc.	283,525	4,088		Group Inc.	5,121,723	1,844
*	PAM Transportation			*,1	Where Food Comes		
	Services Inc.	196,206	4,077		From Inc.	133,053	1,811
*	Core Molding			*,1	INNOVATE Corp.	1,428,742	1,757
	Technologies Inc.	210,686	3,904	*	Hudson Global Inc.	107,683	1,676
*,1	TuSimple Holdings Inc.			*,1	Odyssey Marine Exploration Inc.		
	Class A	4,277,881	3,755		Class B	349,692	1,626
1	EVI Industries Inc.	155,167	3,682	*,1	Coda Octopus		
*,1	BlackSky				Group Inc.	222,690	1,336
	Technology Inc.	0.000.044	0.070	*	Usio Inc.	757,304	1,303
	Class A	2,623,844	3,673	*	Lightbridge Corp.	383,955	1,232
* 1	BGSF Inc.	359,805	3,382	*,1	Knightscope Inc.		
*,1	Byrna	E1E 000	2 201		Class A	1,984,525	1,191
*,1	Technologies Inc.	515,082	3,291	*	LightPath		
, '	Amprius Technologies Inc.	593,900	3,142		Technologies Inc.	075 004	4 400
*,1	Hyliion Holdings	555,500	3,142		Class A	875,201	1,103
,.	Corp.	3,720,847	3,028	*,1	FreightCar	051.000	0.40
*	Innovative Solutions	0,720,017	0,020	*,1	America Inc.	351,606	949
	& Support Inc.	353,301	3,014	, '	Hydrofarm Holdings Group Inc.	950,421	872
*,1	Danimer	,	-,-	*	Priority Technology	330,421	072
	Scientific Inc.				Holdings Inc.	239,738	853
	Class A	2,920,239	2,979	*,1	Astra Space Inc.	200,700	000
*,1	Spire Global Inc.	372,090	2,910		Class A	361,787	825
*,1	Terran Orbital Corp.	2,419,100	2,758	*,1	Sono-Tek Corp.	158,428	822
*,1	CompoSecure Inc.	505,739	2,731	*	M-Tron	100,120	022
*	Babcock & Wilcox				Industries Inc.	22,400	800
	Enterprises Inc.	1,843,405	2,691	*	RF Industries Ltd.	249,088	757
*	Willis Lease Finance			*	IZEA Worldwide Inc.	369,547	743
	Corp.	53,245	2,603	*	Pioneer Power	·	
*,1	CPI Card Group Inc.	133,343	2,559		Solutions Inc.	107,157	728
*,1	Skillsoft Corp.	145,044	2,550	*,1	Katapult		
*,1	Markforged Holding				Holdings Inc.	65,728	718
	Corp.	3,063,363	2,512	*	StarTek Inc.	158,219	698
	VirTra Inc.	265,149	2,511		Espey Manufacturing		
	Frequency	000 470	0.400		& Electronics Corp.	36,920	690
	Electronics Inc.	228,179	2,499	*	Orion Energy		
1 *	HireQuest Inc.	159,520	2,449		Systems Inc.	765,432	663
	Alpha Pro Tech Ltd.	462,840	2,448	*	ClearSign	500.074	05.4
*,1	374Water Inc.	1,698,615	2,412	* 4	Technologies Corp.	588,974	654
	Ultralife Corp.	348,051	2,374	*,1	Sypris Solutions Inc.	311,226	629
*,1	Paysign Inc.	842,113	2,358	*,1	AppTech Payments	200.007	
*,1,2	Tingo Group Inc.	3,254,473	2,246	*	Corp.	289,967	577
*	Research	040.004	0.000		Air T Inc.	32,860	542
* *	Solutions Inc.	846,894	2,202	*,1	Cepton Inc.	170,313	535
*,1	SKYX Platforms	1 225 401	0 107	*	TOMI Environmental	494 660	400
*,1	Corp. Redwire Corp.	1,335,481	2,137	*	Solutions Inc.	484,669 339,000	490 470
- ''	neuwire corp.	737,344	2,101		Mega Matrix Corp.	339,000	478

		O.	Market Value•			01	Market Value•
-		Shares	(\$000)			Shares	(\$000)
*	TSR Inc.	50,537	455	*	Ardagh Group SA	07	
*	FuelTech Inc.	430,339	452	* 0	Class A	37	_
*,1	Team Inc.	67,315	444	*,2	GCI Liberty Inc.	2,704,635	_
	Taitron			_	Sidus Space Inc.	1	
	Components Inc.	105 570	420		Class A	'_	
*	Class A	125,572	438				190,298,744
*	Taylor Devices Inc.	15,808	349	Real	Estate (3.0%)		
	FG Group Holdings Inc.	226,990	334		Prologis Inc.	29,005,186	3,866,391
*,1	Dragonfly Energy	220,990	334		American Tower		
,.	Holdings Corp.	610,200	331		Corp.	14,638,758	3,160,215
*	Astrotech Corp.	38,881	330		Equinix Inc.	2,945,648	2,372,395
*,1	MSP Recovery Inc.	140,320	319		Welltower Inc.	17,468,904	1,575,171
*,1	Xos Inc.	39,986	313		Crown Castle Inc.	13,605,475	1,567,215
*,1	Momentus Inc.	174,015	301		Public Storage	4,963,106	1,513,747
*,1	AmpliTech Group Inc.	135,900	259		Simon Property		
*,1	AEye Inc.	108,615	249		Group Inc.	9,714,257	1,385,642
*	Servotronics Inc.	19,533	249		Realty Income Corp.	22,692,481	1,303,002
*,1	Sarcos Technology &	19,000	244		Digital Realty		
	Robotics Corp.	335,368	242		Trust Inc.	9,502,319	1,278,822
*,1	Applied DNA	000,000	212	-	CoStar Group Inc.	12,807,972	1,119,289
	Sciences Inc.	346,633	214		Extra Space	0.000.040	1 001 070
*,1	AgEagle Aerial	- 12/222			Storage Inc.	6,623,048	1,061,873
	Systems Inc.	1,950,222	205		VICI Properties Inc. Class A	27,557,957	070 540
*	LGL Group Inc.	30,781	189		SBA	27,557,957	878,548
*	Jewett-Cameron				Communications		
	Trading Co. Ltd.	33,538	179		Corp. Class A	3,393,340	860,856
*,1	Air Industries Group	52,840	172	*	CBRE Group Inc.	0,000,010	000,000
*	DSS Inc.	1,292,763	155		Class A	9,076,794	844,959
*	Professional Diversity				AvalonBay	.,,	,
	Network Inc.	68,106	138		Communities Inc.	4,449,033	832,948
*	Ryvyl Inc.	32,268	135		Weyerhaeuser Co.	22,894,971	796,058
*	OLB Group Inc.	113,427	120		Equity Residential	11,345,969	693,920
*,1	Shapeways				Alexandria Real		
	Holdings Inc.	44,252	109		Estate Equities Inc.	5,472,500	693,749
*,1	ENGlobal Corp.	50,641	87		Invitation Homes Inc.	19,168,024	653,821
*,1	CISO Global Inc.	726,500	74		Iron Mountain Inc.	9,184,877	642,758
*	CPI				Ventas Inc.	12,624,557	629,208
	Aerostructures Inc.	24,969	68		Sun		
*,1	Polar Power Inc.	156,102	63		Communities Inc.	3,905,724	522,000
*,1	Energous Corp.	33,731	62		Essex Property		
*,1	Digital Ally Inc.	15,845	33		Trust Inc.	2,011,599	498,756
*	Safe & Green	00.400	00		Mid-America		
	Development Corp.	23,128	32		Apartment	0.055.450	401 F10
	Art's-Way				Communities Inc.	3,655,450	491,512
	Manufacturing Co. Inc.	6,594	14		WP Carey Inc.	6,855,834	444,327
*	Interlink	0,554	14		Host Hotels &	22.055.400	429,421
	Electronics Inc.	438	6		Resorts Inc. Kimco Realty Corp.	22,055,499 19,473,694	414,984
	Greif Inc. Class B	76	5		UDR Inc.	10,306,683	394,643
*	Electro-Sensors Inc.	1,400	5		Gaming & Leisure	10,300,083	394,043
*	Intuitive	1,100	Ü		Properties Inc.	7,907,997	390,260
	Machines Inc.	2,154	5		Regency Centers	1,001,001	550,200
*	Fathom Digital	-,	-		Corp.	5,783,019	387,462
	Manufacturing C	673	3		Equity LifeStyle	2,. 20,0.0	207, .02
*,2	Patriot National Inc.	129,819	_		Properties Inc.	5,255,010	370,688
					•		

	Shares	Market Value• (\$000)			Shares	Market Value* (\$000)
Rexford Industrial Realty Inc.	6,422,060	360,278		Macerich Co. Sabra Health Care	6,786,795	104,720
American Homes 4 Rent Class A	9,614,830	345,749		REIT Inc. Broadstone Net	7,292,221	104,060
Healthpeak Properties Inc.	17,152,943	339,628		Lease Inc. Physicians Realty	5,879,915	101,252
Camden Property Trust	3,337,097	331,340		Trust National Storage	7,451,241	99,176
CubeSmart Boston	7,045,568	326,562		Affiliates Trust Park Hotels &	2,372,607	98,392
Properties Inc. Lamar Advertising	4,428,187	310,726	1	Resorts Inc. Hannon Armstrong	6,413,483	98,126
Co. Class A  * Zillow Group Inc.	2,748,855	292,148		Sustainable Infrastructure		
Class C  * Jones Lang	4,925,065	284,964	1	Capital Inc. Medical Properties	3,540,979	97,660
LaSalle Inc. Americold Realty	1,499,720	283,252		Trust Inc. LXP Industrial Trust	18,769,212 9,270,070	92,157 91,959
Trust Inc. EastGroup	8,974,599	271,661	1	SL Green Realty Corp.	2,028,359	91,621
Properties Inc. Federal Realty	1,456,377	267,303		COPT Defense Properties	3,524,705	90,338
Investment Trust NNN REIT Inc.	2,556,057 5,692,087	263,402 245,329		DigitalBridge Group Inc.	5,086,461	89,217
Omega Healthcare Investors Inc.	7,671,282	235,202		Innovative Industrial Properties Inc.	878,122	88,532
STAG Industrial Inc. Brixmor Property	5,735,930	225,193	*	Tanger Inc. Opendoor	3,112,038	86,266
Group Inc. First Industrial Realty	9,378,601	218,240		Technologies Inc. CareTrust REIT Inc.	19,195,131 3,740,748	85,994 83,718
Trust Inc. Healthcare Realty	4,127,491	217,395	*	SITE Centers Corp. Howard Hughes	6,138,966	83,674
Trust Inc. Class A	12,017,829	207,067		Holdings Inc. Highwoods	968,271	82,836
Agree Realty Corp. Ryman Hospitality	3,131,670	197,139	1	Properties Inc.	3,321,104	76,253
Properties Inc. Spirit Realty	1,771,070	194,924	'	Global Net Lease Inc. Douglas Emmett Inc.	7,608,379 5,065,522	75,703 73,450
Capital Inc. Terreno Realty Corp.	4,399,673 2,717,924	192,222 170,332		National Health Investors Inc.	1,300,502	72,633
Apartment Income REIT Corp. Class A	4,567,210	158,619		St. Joe Co. Four Corners	1,195,695	71,957
Kite Realty Group Trust	6,884,009	157,368		Property Trust Inc. Sunstone Hotel	2,804,407	70,952
Rayonier Inc. Vornado Realty Trust	4,681,076 5,436,828	156,395 153,590	*	Investors Inc. Zillow Group Inc.	6,496,227	69,705
Kilroy Realty Corp. Phillips Edison & Co.	3,681,965	146,690		Class A Outfront Media Inc.	1,163,369 4,638,794	65,986 64,758
Inc. Essential Properties	3,767,274	137,430	*	Cushman & Wakefield plc	5,937,720	64,127
Realty Trust Inc. PotlatchDeltic Corp.	4,897,772 2,503,279	125,187 122,911		Urban Edge Properties	3,466,910	63,444
Cousins Properties Inc.	4,763,164	115,983		Pebblebrook Hotel Trust	3,927,532	62,762
EPR Properties Independence Realty	2,364,241	114,548		DiamondRock Hospitality Co.	6,497,620	61,013
Trust Inc. Apple Hospitality	7,070,134	108,173		Equity Commonwealth	3,150,949	60,498
REIT Inc.	6,403,559	106,363		RLJ Lodging Trust	4,823,853	56,536

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Retail Opportunity				American Assets		
	Investments Corp.	3,784,433	53,096		Trust Inc.	1,155,723	26,015
	Acadia Realty Trust	2,997,012	50,919		Armada Hoffler		
	InvenTrust Properties				Properties Inc.	1,896,036	23,454
	Corp.	2,007,100	50,860		NexPoint Residential	070.000	00.000
	JBG SMITH	0.000.750	40.000		Trust Inc.	676,829	23,303
*	Properties Compass Inc.	2,933,752	49,903		Summit Hotel Properties Inc.	3,209,693	21,569
	Class A	11,889,624	44,705	1	Peakstone Realty	3,203,033	21,303
	Service Properties	11,000,021	11,700		Trust	1,076,600	21,457
	Trust	5,220,401	44,582		Global Medical		
	Newmark Group Inc.				REIT Inc.	1,861,159	20,659
	Class A	4,036,442	44,239		Community		
	Alexander &		40.005		Healthcare Trust Inc.	747,617	19,917
	Baldwin Inc.	2,277,884	43,325	1	Whitestone REIT	1,541,690	18,947
	Uniti Group Inc. Xenia Hotels &	7,463,005	43,136	'	Farmland Partners Inc.	1,486,534	18,552
	Resorts Inc.	3,165,313	43,112	1	CBL & Associates	1,400,554	10,332
	LTC Properties Inc.	1,324,789	42,552		Properties Inc.	732,574	17,889
	Kennedy-Wilson	.,02 .,, 00	12,002		Universal Health		
	Holdings Inc.	3,429,394	42,456		Realty Income Trust	413,444	17,881
	Getty Realty Corp.	1,428,700	41,747	*	Forestar Group Inc.	538,939	17,823
	Elme Communities	2,813,618	41,079		Saul Centers Inc.	439,170	17,246
	Hudson Pacific				Gladstone Land Corp.	1,118,425	16,161
	Properties Inc.	4,402,588	40,988		Alexander's Inc.	75,137	16,047
*	GEO Group Inc.	3,736,646	40,468		Chatham Lodging	4 474 700	45.040
	Easterly Government			1	Trust	1,474,768	15,810
	Properties Inc. Class A	2,891,300	38,859	'	Ares Commercial Real Estate Corp.	1,521,592	15,764
	Empire State Realty	2,001,000	00,000		Gladstone	1,021,002	15,704
	Trust Inc. Class A	3,990,347	38,666		Commercial Corp.	1,186,750	15,713
	Veris Residential Inc.	2,448,747	38,519		RMR Group Inc.		
1	eXp World				Class A	443,704	12,526
	Holdings Inc.	2,432,851	37,758		One Liberty		
	NETSTREIT Corp.	2,063,533	36,834		Properties Inc.	549,453	12,039
*	Redfin Corp.	3,457,551	35,682		Office Properties	1 E10 400	11 115
*	Apartment			1	Income Trust CTO Realty	1,518,403	11,115
	Investment & Management Co.				Growth Inc.	633,230	10,974
	Class A	4,437,902	34,749	*	FRP Holdings Inc.	170,118	10,697
	UMH Properties Inc.	2,256,065	34,563	*	Tejon Ranch Co.	619,353	10,653
	RPT Realty	2,665,717	34,201		Orion Office	,	,
	Plymouth Industrial	, ,	,		REIT Inc.	1,829,577	10,465
	REIT Inc.	1,371,217	33,005	*,1	Seritage Growth		
	Marcus &				Properties Class A	1,116,701	10,441
	Millichap Inc.	755,429	32,997		Industrial Logistics	0.405.007	40.005
	Paramount	0.004.000	21.044		Properties Trust	2,135,037	10,035
	Group Inc.	6,004,698	31,044		NET Lease Office Properties	497,306	9,190
	Brandywine Realty Trust	5,445,069	29,403	*,1	Stratus	437,300	3,130
	Piedmont Office	3,443,003	20,400		Properties Inc.	274,453	7,921
	Realty Trust Inc.				Alpine Income	,	,-
	Class A	3,892,835	27,678		Property Trust Inc.	467,309	7,902
	Diversified				Bridge Investment		
	Healthcare Trust	7,325,882	27,399		Group Holdings Inc.	000 505	700-
*	Anywhere Real	0.000.010	20.700		Class A	806,505	7,888
	Estate Inc.	3,293,319	26,709 26,461		Postal Realty Trust Inc. Class A	503,164	7,326
	Centerspace	454,649	26,461		nust inc. Class A	JUJ, 104	1,320

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	City Office REIT Inc.	1,177,661	7,196	*	Meta Platforms Inc.		
	Franklin Street				Class A	69,669,051	24,660,057
	Properties Corp.	2,758,628	7,062	*	Alphabet Inc. Class C	152,719,604	21,522,774
	RE/MAX				Broadcom Inc.	13,928,914	15,548,150
	Holdings Inc.			*	Adobe Inc.	14,289,771	8,525,277
	Class A	519,322	6,923	*	Salesforce Inc.	29,009,098	7,633,454
	BRT Apartments			*	Advanced Micro		
	Corp.	355,802	6,614		Devices Inc.	50,708,088	7,474,879
	Douglas Elliman Inc.	2,057,383	6,069		Intel Corp.	132,347,697	6,650,472
*,1	Offerpad		<b>5</b> 000		Oracle Corp.	51,580,874	5,438,172
	Solutions Inc.	568,364	5,826		Intuit Inc.	8,354,502	5,221,814
*	Star Holdings	384,803	5,764		QUALCOMM Inc.	34,922,133	5,050,788
	Braemar Hotels &				Texas		
	Resorts Inc.	2,097,772	5,244		Instruments Inc.	28,482,478	4,855,123
	Modiv Industrial Inc.	004.070	0.040		International		
	Class C	224,372	3,343		Business Machines		
_	Maui Land &	201 000	2 202		Corp.	28,640,079	4,684,085
	Pineapple Co. Inc.	201,600	3,203	*	ServiceNow Inc.	6,432,254	4,544,323
*,1	AMREP Corp.	115,952	2,548		Applied Materials Inc	. 26,252,722	4,254,779
-, 1	Ashford Hospitality	1 040 650	0.411		Lam Research Corp.	4,136,298	3,239,797
	Trust Inc.	1,242,653	2,411		Analog Devices Inc.	15,570,646	3,091,707
	Clipper Realty Inc.	405,295	2,189		Micron		
	Creative Media &				Technology Inc.	34,472,657	2,941,897
	Community Trust Corp.	477,630	1,786	*	Palo Alto		
	Bluerock Homes	477,030	1,700		Networks Inc.	9,898,099	2,918,751
	Trust Inc.	109,382	1,530		KLA Corp.	4,265,906	2,479,771
	Global Self	100,002	1,550	*	Synopsys Inc.	4,773,109	2,457,722
	Storage Inc.	319,661	1,480	*	Cadence Design		
*,1	Altisource Portfolio	010,001	1, 100		Systems Inc.	8,539,101	2,325,795
	Solutions SA	399,728	1,423		Amphenol Corp.		
*	Fathom Holdings Inc.		1,249		Class A	18,761,794	1,859,857
*	Comstock Holding	. 017,011	1,210	*	Snowflake Inc.		
	Cos. Inc. Class A	164,051	733		Class A	9,321,315	1,854,942
*	Rafael Holdings Inc.	,	, 00		Roper		
	Class B	381,611	698		Technologies Inc.	3,344,804	1,823,487
*	Sotherly Hotels Inc.	337,859	503	*	Crowdstrike		
*,1	LuxUrban Hotels Inc.		262		Holdings Inc.	7101 500	1 010 100
1	Presidio Property	,			Class A	7,101,528	1,813,162
	Trust Inc. Class A	184,525	190		Workday Inc. Class A	6,496,043	1,793,298
*,2	New York REIT				Marvell Technology Inc.	27105 012	1 624 750
	Liquidating LLC	19,100	133	*	Autodesk Inc.	27,105,912	1,634,758
*	Alset Inc.	77,598	80		Microchip	6,710,560	1,633,887
*	Trinity Place				Technology Inc.	16,985,836	1,531,783
	Holdings Inc.	467,678	52		TE Connectivity Ltd.	9,755,583	1,370,659
*,1	Avalon GloboCare			*	Fortinet Inc.	20,480,474	1,198,722
	Corp.	33,944	16				1,190,722
*	American Strategic				Cognizant Technology	/	
	Investment Co.	254	2		Solutions Corp. Class A	15,721,910	1,187,476
*,2	Spirit MTA REIT	2,854,330	_	*	Atlassian Corp.	10,721,010	1,107,470
*	CKX Lands Inc.	30	_		Class A	4,872,748	1,159,032
		_	43,977,030	*	ON Semiconductor	1,072,710	1,100,002
Toob	nology (31.0%)		43,377,030		Corp.	13,527,613	1,129,962
IECIII	•	163 710 Q7E	80 382 200	*	Palantir	.5,527,510	1,120,002
		463,748,976	89,285,590		Technologies Inc.		
		233,278,085	87,721,891		Class A	61,738,653	1,060,053
*	NVIDIA Corp. Alphabet Inc. Class A	73,651,336	36,473,615	*	Gartner Inc.	2,324,409	1,048,564
	Aiphabet inc. Class A	1100,773,154	25,950,652	*	Datadog Inc. Class A		1,036,920
					5	, ,	,,.

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	ANSYS Inc.	2,732,569	991,595	-	Bentley Systems Inc.		
*	DoorDash Inc.	2,702,000	001,000		Class B	7,104,361	370,706
	Class A	9,905,913	979,596	*	Nutanix Inc. Class A	7,537,563	359,466
	CDW Corp.	4,202,456	955,302	*	Qorvo Inc.	3,060,986	344,698
	Monolithic Power	.,202, .00	000,002	*	Unity Software Inc.	8,377,996	342,576
	Systems Inc.	1,430,997	902,644	*	F5 Inc.	1,874,185	335,442
*	HubSpot Inc.	1,504,140	873,213	*	Pure Storage Inc.	1,071,100	000,112
*	MongoDB Inc. Class A	2,129,759	870,752		Class A Pavcom	9,351,311	333,468
	HP Inc.	27,909,533	839,798		Software Inc.	1,611,545	333,139
*	Splunk Inc.	5,285,897	805,306	*	Match Group Inc.	8,547,566	311,986
*	Cloudflare Inc.	3,203,037	003,300	*	Ceridian HCM	0,547,500	311,300
	Class A	8,843,863	736,340		Holding Inc.	4,643,544	311,675
	Corning Inc.	24,073,700	733,044	*	Lattice	4,040,044	311,073
*	Pinterest Inc. Class A		682,832		Semiconductor		
	Hewlett Packard	10,454,575	002,032		Corp.	4,325,177	298,394
	Enterprise Co.	40,193,075	682,478	*	UiPath Inc. Class A	11,446,235	284,324
*	PTC Inc.	3,553,734	621,761	*	Guidewire	,,===	,
*	Zscaler Inc.	2,780,423	616,031		Software Inc.	2,565,214	279,711
	Dell Technologies Inc.		010,031	*	Elastic NV	2,460,399	277,287
	Class C	7,987,767	611,064		Universal Display	2, .00,000	277,207
	NetApp Inc.	6,542,088	576,750		Corp.	1,414,440	270,526
	Entegris Inc.	4,709,616	564,306	*	Onto Innovation Inc.	1,548,803	236,812
	Skyworks	4,709,616	304,300	*	Toast Inc. Class A	12,794,225	233,623
	Solutions Inc.	5,003,941	562,543		KBR Inc.	4,212,871	233,435
*	Akamai	3,003,341	302,343	*	Dropbox Inc. Class A	7,860,970	231,741
	Technologies Inc.	4,726,953	559,435	*	Rambus Inc.	3,373,203	230,221
*	VeriSign Inc.	2,707,716	557,681	*	CACI	0,070,200	200,221
*	Snap Inc. Class A	32,820,879	555,657		International Inc.		
*	Tyler	32,020,073	333,037		Class A	697,124	225,771
	Technologies Inc.	1,318,991	551,497	*	SPS Commerce Inc.	1,147,711	222,472
*	EPAM Systems Inc.	1,815,236	539,742	*	Fabrinet	1,146,909	218,291
*	Western Digital Corp.		535,682	*	Qualys Inc.	1,088,222	213,596
	Seagate Technology	10,220,732	303,002	*,1	MicroStrategy Inc.	.,,	_:-,
	Holdings plc	6,263,163	534,686		Class A	335,693	212,030
*	Zoom Video	0,200,100	00.,000		Science Applications	·	,
	Communications				International Corp.	1,670,248	207,645
	Inc. Class A	7,294,702	524,562	*	Arrow		
	Teradyne Inc.	4,798,838	520,770		Electronics Inc.	1,688,600	206,431
	Vertiv Holdings Co.	, ,	,	*	Coherent Corp.	4,734,643	206,099
	Class A	10,734,535	515,580	*	Procore		
	Jabil Inc.	3,819,661	486,625		Technologies Inc.	2,958,877	204,813
*	GoDaddy Inc. Class A	4,416,070	468,810	*	ZoomInfo		
	Leidos Holdings Inc.	4,307,704	466,266		Technologies Inc.		
*	Dynatrace Inc.	8,298,026	453,819		Class A	11,047,729	204,273
*	Okta Inc. Class A	4,933,901	446,666	*	Aspen		
*	Super Micro	1,000,001	1 10,000		Technology Inc.	908,813	200,075
	Computer Inc.	1,484,478	421,978	*	SentinelOne Inc.		
*	Manhattan	.,, ., .	.2.,0,0		Class A	7,279,356	199,746
	Associates Inc.	1,929,732	415,510	*	AppLovin Corp.		
*	Twilio Inc. Class A	5,390,398	408,969		Class A	4,995,377	199,066
	SS&C Technologies	-,3,000		*	Smartsheet Inc.		
	Holdings Inc.	6,603,738	403,554		Class A	4,066,946	194,481
	Gen Digital Inc.	17,013,885	388,257	*	Novanta Inc.	1,121,519	188,875
*	DocuSign Inc.	,	., -	*	Gitlab Inc. Class A	2,960,462	186,391
	Class A	6,383,307	379,488	*	Insight	4 000 70 :	464 665
		-		*	Enterprises Inc.	1,023,704	181,390
				*	Five9 Inc.	2,285,318	179,832

			Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
-		Concentrix Corp.	1,802,617	177,035	*	Ziff Davis Inc.	1,403,453	94,298
		TD SYNNEX Corp.	1,592,946	171,417	*,1	C3.ai Inc. Class A	3,240,409	93,032
	*	Wolfspeed Inc.	3,924,135	170,739	*	CCC Intelligent	-,,	,
	*	Tenable Holdings Inc.	3,622,318	166,844		Solutions		
		Dolby	-,,-	,		Holdings Inc.	8,089,183	92,136
		Laboratories Inc.			*	Braze Inc. Class A	1,714,321	91,082
		Class A	1,869,036	161,074	*	Alteryx Inc. Class A	1,871,539	88,262
	*	Samsara Inc. Class A	4,811,159	160,596	*	Sprout Social Inc.		
	*	DoubleVerify				Class A	1,434,106	88,111
		Holdings Inc.	4,266,288	156,914	*	Sanmina Corp.	1,698,911	87,273
	*	MACOM Technology			*	JFrog Ltd.	2,507,959	86,800
		Solutions		454.000	*	RingCentral Inc.		
		Holdings Inc.	1,666,094	154,863		Class A	2,523,615	85,677
	Ţ	Workiva Inc. Class A	1,478,338	150,096	*	Parsons Corp.	1,333,802	83,643
	Ţ	Kyndryl Holdings Inc.	7,208,446	149,792	*	Credo Technology		
		Varonis Systems Inc.	0.000.100	147710		Group Holding Ltd.	4,006,330	78,003
		Class B	3,262,196	147,712	*	Rogers Corp.	590,355	77,968
		Power	1 700 005	147015	*	Envestnet Inc.	1,536,522	76,089
	*	Integrations Inc.	1,792,895	147,215	*	Q2 Holdings Inc.	1,736,011	75,360
	*	Blackbaud Inc.	1,682,256	145,852	*	HashiCorp Inc.	0.447005	74.000
		Freshworks Inc. Class A	6,131,296	144,024		Class A	3,147,025	74,396
		Avnet Inc.	2,852,864	143,784	*	LiveRamp	1 000 004	74.000
	*	Altair	2,002,004	143,704		Holdings Inc.	1,963,284	74,369
		Engineering Inc.				Progress Software Corp.	1 267600	74,266
		Class A	1,701,833	143,209	*	Perficient Inc.	1,367,690	71,739
	*	Synaptics Inc.	1,237,297	141,151	*	Ambarella Inc.	1,089,931	
	*	DXC Technology Co.	6,089,036	139,256	*		1,169,817	71,698
	*	Cirrus Logic Inc.	1,672,600	139,144	*	nCino Inc.	2,120,722	71,320
	*	Confluent Inc.	1,072,000	100,111	*	Schrodinger Inc.	1,982,406	70,970
		Class A	5,914,880	138,408	*	NCR Voyix Corp.	4,169,167	70,501
	*	Silicon	0,01.,000	100,100		Cargurus Inc. Class A		69,405
		Laboratories Inc.	1,013,366	134,038		ePlus Inc.	842,988	67,304
	*	Teradata Corp.	3,068,278	133,501		Allegro	0 160 466	6E 620
	*	Axcelis		,	*	MicroSystems Inc.	2,168,466	65,639
		Technologies Inc.	1,024,591	132,879	*,1	SiTime Corp.	530,377	64,748
		Amkor			, 1	Fastly Inc. Class A	3,626,374	64,549
		Technology Inc.	3,891,601	129,474	*,1	Pegasystems Inc. IonQ Inc.	1,302,725	63,651
		Advanced Energy			*,1		5,052,628	62,602
		Industries Inc.	1,184,350	128,999	, 1	Impinj Inc.	694,053	62,486
	*	IAC Inc.	2,284,679	119,671	*,1	Xerox Holdings Corp. DigitalOcean	3,403,634	62,389
	*	CommVault			, 1	Holdings Inc.	1,664,786	61,081
		Systems Inc.	1,393,172	111,245	*	PagerDuty Inc.	2,588,630	59,927
	*	Box Inc. Class A	4,293,090	109,946	*	Squarespace Inc.	2,566,650	55,527
	*	Diodes Inc.	1,359,694	109,483		Class A	1,798,427	59,366
	*	BlackLine Inc.	1,713,216	106,973	*	Upwork Inc.	3,788,967	56,342
	*	Appfolio Inc. Class A	617,010	106,891		Clear Secure Inc.	3,700,307	30,342
		Dun & Bradstreet				Class A	2,648,213	54,686
		Holdings Inc.	9,096,127	106,425	*	Photronics Inc.	1,730,995	54,301
	*	Rapid7 Inc.	1,806,242	103,136	*	MaxLinear Inc.	.,, 55,555	54,501
	*	FormFactor Inc.	2,432,698	101,468		Class A	2,266,415	53,873
	*	IPG Photonics Corp.	909,901	98,761	*	Agilysys Inc.	634,411	53,811
	*	Yelp Inc. Class A	2,046,689	96,890	*	Verint Systems Inc.	1,962,609	53,049
	*	Alarm.com			*	Veeco	,,000	20,0.0
		Holdings Inc.	1,492,446	96,442		Instruments Inc.	1,661,047	51,542
		Vishay	4 017550	00.004	*	Cleanspark Inc.	4,610,798	50,857
	*	Intertechnology Inc.	4,017,559	96,301	*	PROS Holdings Inc.	1,299,892	50,423
	*	Plexus Corp.	873,706	94,474		J- ····•	,	,

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Cohu Inc.	1,420,203	50,261	*	E2open Parent		
*	TTM	, .,			Holdings Inc.	6,164,124	27,061
	Technologies Inc.	3,165,196	50,042	*	N-able Inc.	1,965,948	26,049
*	Appian Corp. Class A	1,311,913	49,407	*	3D Systems Corp.	4,013,073	25,483
*	NetScout				Methode		
	Systems Inc.	2,151,820	47,232		Electronics Inc.	1,103,207	25,076
*	Ultra Clean			*	Couchbase Inc.	1,066,263	24,012
	Holdings Inc.	1,366,150	46,640	*	Cerence Inc.	1,201,324	23,618
*	Informatica Inc.			*,1	Aehr Test Systems	886,185	23,510
	Class A	1,614,836	45,845		PC Connection Inc.	343,225	23,068
*,1	Xometry Inc. Class A	1,271,417	45,657	*	Grid Dynamics		
	CSG Systems	0.40.000	45.050		Holdings Inc.	1,666,570	22,215
*	International Inc.	846,686	45,052	*	Diebold Nixdorf Inc.	749,600	21,701
*	Bumble Inc. Class A	3,047,003	44,913		Simulations Plus Inc.	475,654	21,286
*	Vertex Inc. Class A	1,665,584	44,871	*	Eventbrite Inc.		
*	Paycor HCM Inc.	2,030,807	43,845		Class A	2,533,728	21,182
*,1	Semtech Corp.	1,987,195	43,539	*	Matterport Inc.	7,851,178	21,120
, '	Asana Inc. Class A	2,235,408	42,495		Vimeo Inc.	5,339,889	20,932
*,1	CTS Corp.	957,527	41,882	*,1 *	Klaviyo Inc. Class A	735,788	20,440
, '	PAR Technology Corp.	917,640	39,954	*	SolarWinds Corp.	1,618,452	20,214
	Adeia Inc.	3,077,516	38,130		PubMatic Inc. Class A	1 000 104	00.010
*	Magnite Inc.	4,064,385	37,961	*		1,239,124	20,210
*	Zeta Global Holdings	4,004,000	07,001	*	Digital Turbine Inc. BigCommerce	2,901,678	19,906
	Corp. Class A	4,278,341	37,735		Holdings Inc.	1,977,724	19,243
1	Shutterstock Inc.	777,507	37,538	*	Yext Inc.	3,172,438	18,686
*	Jamf Holding Corp.	2,073,381	37,445	*	Kimball	0,.,2,.00	.0,000
*	Intapp Inc.	984,678	37,437		Electronics Inc.	677,296	18,253
*	indie			*,1	SEMrush		
	Semiconductor Inc.				Holdings Inc.		
	Class A	4,558,066	36,966		Class A	1,332,280	18,199
*	Sprinklr Inc. Class A	3,066,236	36,917	*	Mitek Systems Inc.	1,391,563	18,146
*	Zuora Inc. Class A	3,917,211	36,822	*,1	Digimarc Corp.	494,615	17,865
*	AvePoint Inc.	4,421,969	36,304	*	SmartRent Inc.	F F00 000	47750
*	PDF Solutions Inc.	1,123,545	36,111	*	Class A	5,566,988	17,759
Ţ	Veradigm Inc.	3,282,514	34,434	*,1	Olo Inc. Class A	3,067,735	17,547
_	ScanSource Inc.	836,936	33,151	, ,	Getty Images Holdings Inc.	3,254,300	17,085
_	EngageSmart Inc.	1,369,819	31,369	*	nLight Inc.	1,264,578	17,003
*	Everbridge Inc.	1,271,286	30,905	*	Alpha & Omega	1,204,070	17,072
*	Model N Inc. Alkami	1,110,025	29,893		Semiconductor Ltd.	643,490	16,769
	Technology Inc.	1,220,260	29,591	*,1	Blend Labs Inc.	•	,
	Benchmark	1,220,200	20,001		Class A	6,432,185	16,402
	Electronics Inc.	1,065,589	29,453	*	Vivid Seats Inc.		
*	TechTarget Inc.	831,768	28,995		Class A	2,588,800	16,361
	A10 Networks Inc.	2,174,205	28,634	*,1	NerdWallet Inc.		
*	Amplitude Inc.		,		Class A	1,106,720	16,291
	Class A	2,250,274	28,623		Weave		
*	ACM Research Inc.				Communications Inc.	1,413,748	16,216
	Class A	1,463,522	28,597		Hackett Group Inc.	689,753	15,706
*	Ichor Holdings Ltd.	846,634	28,472	*,1	MicroVision Inc.	5,662,357	15,766
*	Navitas			*	CEVA Inc.	645,647	14,663
	Semiconductor	0.461.400	07000	*	Planet Labs PBC	5,801,296	14,329
*	Corp. Class A	3,461,400	27,933	*	Consensus Cloud	3,001,200	17,023
	SMART Global Holdings Inc.	1,470,356	27,834		Solutions Inc.	544,091	14,261
	Holdings IIIC.	1,470,300	21,034	*	Thoughtworks	- /==:	.,
					Holding Inc.	2,936,882	14,126

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Definitive Healthcare				Richardson		
	Corp. Class A	1,415,958	14,075		Electronics Ltd.	332,253	4,436
*,1	Applied Digital Corp.	1,988,300	13,401	*,1	CoreCard Corp.	314,332	4,347
*,1	SoundHound Al Inc.	1,000,000	10, 101	*	Upland Software Inc.	980,074	4,146
	Class A	6,118,998	12,972	*	AstroNova Inc.	251,021	4,082
*	MeridianLink Inc.	509,328	12,616	*	AXT Inc.	1,622,032	3,893
*,1	Terawulf Inc.	4,846,555	11,632	*	1stdibs.com Inc.	822,834	3,851
	NVE Corp.	145,801	11,435	*	Pixelworks Inc.	2,796,204	3,663
*	OneSpan Inc.	1,058,980	11,352	*	Brightcove Inc.	1,404,266	3,637
*	Daktronics Inc.	1,325,348	11,239	*	Viant Technology Inc.	1,404,200	0,007
*	Unisys Corp.	1,935,305	10,876		Class A	509,873	3,513
	American	1,000,000	10,070	*	Rackspace	000,070	0,0.0
	Software Inc.				Technology Inc.	1,690,995	3,382
	Class A	921,406	10,412	*	Transphorm Inc.	898,488	3,279
*	Enfusion Inc. Class A	1,069,947	10,378	*	Intevac Inc.	712,652	3,079
*,1	Rumble Inc.	2,181,400	9,794	*	Expensify Inc.	,	-,-
*	Domo Inc. Class B	900,573	9,267		Class A	1,226,965	3,031
*	Bandwidth Inc.			*,1	FiscalNote Holdings		
	Class A	631,073	9,132		Inc.	2,641,300	3,011
*,1	Groupon Inc. Class A	698,916	8,974	*,1	Aeva		
*	TrueCar Inc.	2,570,193	8,893		Technologies Inc.	3,931,094	2,979
	Immersion Corp.	1,189,827	8,400	*,1	Rigetti		
*	LivePerson Inc.	2,161,862	8,193		Computing Inc.	2,946,700	2,902
*	eGain Corp.	977,552	8,143	1	CSP Inc.	139,445	2,789
*,1	QuickLogic Corp.	584,273	8,098	*	Synchronoss		
*	EverQuote Inc.				Technologies Inc.	422,273	2,622
	Class A	645,954	7,906	*,1	Vroom Inc.	4,332,182	2,610
*,1	Porch Group Inc.	2,459,734	7,576	*,1	WM Technology Inc.	3,203,513	2,307
*,1	Tucows Inc. Class A	280,369	7,570	*,1	Veritone Inc.	1,137,370	2,059
*	Kopin Corp.	3,713,434	7,538	1	SilverSun		
*	Backblaze Inc.				Technologies Inc.	118,790	2,032
	Class A	948,030	7,196		Amtech Systems Inc.	477,101	2,004
*	Rimini Street Inc.	2,193,828	7,174	*	Issuer Direct Corp.	110,039	1,995
*	Nextdoor			Ţ	comScore Inc.	118,989	1,987
	Holdings Inc.	3,659,313	6,916	*	SecureWorks Corp.	000 450	4 0 4 0
*	Identiv Inc.	821,350	6,768	*	Class A	263,152	1,942
*,1	Innodata Inc.	826,077	6,724		TransAct Technologies Inc.	260 245	1,880
	ON24 Inc.	852,030	6,714	*,1	Nutex Health Inc.	269,345 9,268,251	1,668
*,1	Ouster Inc.	864,088	6,628	*,1	Smith Micro	9,200,201	1,000
*	inTEST Corp.	471,536	6,413	,.	Software Inc.	2,009,704	1.660
*,1	Red Violet Inc.	320,472	6,400	*	Inuvo Inc.	3,857,320	1,639
*	MediaAlpha Inc.			*,1	System1 Inc.	726,600	1,613
	Class A	555,905	6,198	*,1	BigBear.ai	720,000	1,013
*	Asure Software Inc.	650,426	6,192	,.	Holdings Inc.	739,669	1,583
*	Telos Corp.	1,644,309	6,002	*,1	Stronghold Digital	700,000	1,500
*,1	Atomera Inc.	855,596	5,998	•	Mining Inc. Class A	211,910	1,547
*,1	SkyWater			*,1	GSI Technology Inc.	574,548	1,517
	Technology Inc.	621,278	5,977	*,1	Sphere 3D Corp.	450,035	1,494
*,1	NextNav Inc.	1,285,569	5,721	*,1	Direct Digital	100,000	1,704
*,1	Cipher Mining Inc.	1,308,472	5,404		Holdings Inc.		
*	EverCommerce Inc.	458,280	5,055		Class A	90,848	1,352
*	Arteris Inc.	816,270	4,808	*	Intellicheck Inc.	685,145	1,302
*	Innovid Corp.	3,010,125	4,515	*	Edgio Inc.	3,619,157	1,240
1	ReposiTrak Inc.	446,046	4,465	*,1	Skillz Inc. Class A	196,381	1,225
*	Everspin			*,1	Steel Connect Inc.	126,263	1,202
	Technologies Inc.	491,754	4,445		2123. 000000.	.20,200	.,232

			Market				Market
			Value•				Value•
		Shares	(\$000)			Shares	(\$000)
*,1	Flux Power			*	Boxlight Corp.		
	Holdings Inc.	287,084	1,180		Class A	189,451	203
*	Key Tronic Corp.	270,500	1,169	*	Rubicon		
*	Quantum Corp.	3,321,825	1,159		Technologies Inc.		
*	AudioEye Inc.	211,717	1,148		Class A	106,092	196
*	DecisionPoint			*	Data Storage Corp.	64,393	185
	Systems Inc.	179,250	1,122	*	iPower Inc.	386,294	174
*	Aware Inc.	646,876	1,074	*	Paltalk Inc.	65,588	153
*	Zedge Inc. Class B	455,536	1,071	*	VerifyMe Inc.	111,129	124
*	One Stop			*,1	Intrusion Inc.	416,377	105
	Systems Inc.	498,283	1,046	*,1	Leafly Holdings Inc.	17,934	86
*	KORE Group			*,1	T Stamp Inc. Class A	61,734	85
	Holdings Inc.	1,047,448	1,027	*,1	CYNGN Inc.	525,965	76
*	NetSol			*,1	OMNIQ Corp.	90,005	56
	Technologies Inc.	448,836	965	*	Nortech Systems Inc	5,000	48
*	AdTheorent Holding			*	Laser Photonics		
	Co. Inc.	654,100	948		Corp.	28,091	33
*,1	Arena Group			*,1	Remark Holdings Inc	40,096	20
	Holdings Inc.	382,903	911	*	Intellinetics Inc.	1,500	8
*,1	Greenidge					-	4E2 04E 607
	Generation			Talaa		2/ )	452,045,607
	Holdings Inc.	104 000	001	reied	communications (2.0°		F 70F 070
*	Class A	134,326	901		Cisco Systems Inc.	114,726,249	5,795,970
	CVD Equipment	100.070	077		Comcast Corp.	105 065 055	E E00 600
1	Corp.	198,073	877		Class A	125,965,855	5,523,603
*,1	VirnetX Holding Corp.	116,102	813		Verizon Communications		
-,1	Quantum Computing Inc.	880,269	804		Inc.	118,780,572	4,478,028
*	Presto	000,209	004		AT&T Inc.	224,727,919	3,770,935
	Automation Inc.	1,445,442	768		T-Mobile US Inc.	16,301,046	2,613,547
*	Wag! Group Co.	404,431	706 716	*	Arista Networks Inc.		
*,1	authID Inc.	73,845	699			7,816,629	1,840,894
*	EMCORE Corp.	,			Motorola Solutions Inc.	5,202,023	1,628,701
*		1,425,083	697	*	Charter	3,202,023	1,020,701
*	ZeroFox Holdings Inc.		695		Communications		
*	WidePoint Corp.	265,533	616		Inc. Class A	3,018,969	1,173,413
*,1	Mastech Digital Inc.	69,007	582	*	Roku Inc. Class A	3,935,179	360,699
*	Urgent.ly Inc.	182,809	580	*	Liberty Broadband	0,000,170	000,000
*	Trio-Tech International	108,490	550		Corp. Class C	3,744,468	301,767
	Data I/O Corp.	180,859	532		Juniper	-,,	
*,1	BuzzFeed Inc.	0.100.000	F07		Networks Inc.	10,068,162	296,809
	Class A	2,108,022	527	*	Ciena Corp.	4,686,757	210,951
*,1	Beachbody Co. Inc.	60,943	505	*	Frontier	.,,.	_:-,:
*,1	Glimpse Group Inc.	437,150	494		Communications		
*,1	Alpine 4	040 445	477		Parent Inc.	7,714,044	195,474
,	Holdings Inc.	649,415	477		Iridium		
*	Duos Technologies	450.004	450		Communications		
	Group Inc.	158,934	458		Inc.	3,563,840	146,688
*	BTCS Inc.	280,193	457	*	Lumentum		
-	Streamline Health	1 007540	407		Holdings Inc.	2,146,621	112,526
*,1	Solutions Inc.	1,027,543	437		Cogent		
, '	KULR Technology	2 126 566	202		Communications		
*	Group Inc. Bridgeline Digital Inc.	2,126,566	393		Holdings Inc.	1,371,442	104,312
*	0 0	419,181	363	*,1	Viasat Inc.	3,551,415	99,262
	SigmaTron International Inc.	98,274	295		InterDigital Inc.	793,108	86,084
*,1	Phunware Inc.	3,434,695	282		Cable One Inc.	141,428	78,717
*,1	Creative Realities Inc.			*	Calix Inc.	1,769,868	77,326
*,1	Maplebear Inc.	113,471	268 216	*	Viavi Solutions Inc.	7,026,436	70,756
, 1	iviapieneai IIIC.	9,188	216				

			Market				Market
		Shares	Value* (\$000)			Shares	Value• (\$000)
*	Extreme		(4000)	*	VVII Industrian Inc		
	Networks Inc.	3,875,543	68,365	*,1	KVH Industries Inc. Powerfleet Inc.	623,125 952,316	3,278
	Telephone & Data	0,070,040	00,000	*	Cambium Networks	952,510	3,257
	Systems Inc.	3,251,568	59,666		Corp.	375,529	2,253
*	Lumen	-,,	55,555	*,1	SurgePays Inc.	345,312	2,227
	Technologies Inc.	31,781,128	58,159	*	Genasys Inc.	1,069,984	2,172
*	DISH Network Corp.			*,1	Akoustis	1,000,001	2,172
	Class A	7,857,323	45,337		Technologies Inc.	2,123,996	1,771
*	Harmonic Inc.	3,320,726	43,302		Crexendo Inc.	345,906	1,678
*		22,256,913	43,178	*	Airgain Inc.	355,805	1,267
*	Liberty Broadband			*	DZS Inc.	641,747	1,264
	Corp. Class A	522,829	42,161		Network-1		
	Shenandoah				Technologies Inc.	570,833	1,244
	Telecommunications	1 505 040	00.041	*,1	Inseego Corp.	3,041,116	668
*	Co.	1,565,246	33,841	*	Casa Systems Inc.	957,382	507
*,1	fuboTV Inc.	9,076,840	28,864	*	Franklin Wireless		
7,1	Infinera Corp.	5,831,136	27,698		Corp.	119,754	406
_	Digi International Inc.	1,039,708	27,032	*	Charge		
	Bel Fuse Inc. Class B	379,156	25,316		Enterprises Inc.	2,547,177	291
	IDT Corp. Class B	645,387	22,001	*,1	CalAmp Corp.	1,119,100	281
*	Altice USA Inc.	0.747.007	04.004		ClearOne Inc.	249,029	269
	Class A	6,717,067	21,831	*	Optical Cable Corp.	93,055	251
_	Gogo Inc.	1,931,306	19,564		Bel Fuse Inc. Class A	3,626	233
	United States Cellular	461 1EE	10.156	*	Sonim		
*,1	Corp.	461,155	19,156		Technologies Inc.	239,926	176
, '	Applied Optoelectronics Inc.	943,878	18,236	*,1	Vislink		
*	CommScope Holding	343,676	10,230		Technologies Inc.	34,830	134
	Co. Inc.	6,269,922	17,681	*	BK Technologies		_
*,1	Lightwave Logic Inc.	3,319,973	16,533		Corp.	300	4
*	EchoStar Corp.	3,313,373	10,555	*,1,2	FTE Networks Inc.	84,180_	
	Class A	979,864	16,236				29,818,101
	ADTRAN	0,0,00	.0,200	Utilit	ies (2.6%)		
	Holdings Inc.	2,181,394	16,011		NextEra Energy Inc.	63,541,375	3,859,503
*,1	AST		•		Southern Co.	34,268,056	2,402,876
	SpaceMobile Inc.				Duke Energy Corp.	24,220,815	2,350,388
	Class A	2,482,967	14,972		Waste		
*	Anterix Inc.	414,796	13,821		Management Inc.	12,632,897	2,262,552
*	Xperi Inc.	1,204,322	13,272		Sempra	19,738,916	1,475,089
	ATN International Inc.	324,753	12,656		PG&E Corp.	79,899,019	1,440,579
*	NETGEAR Inc.	857,738	12,506		American Electric		
*	8x8 Inc.	3,289,503	12,434		Power Co. Inc.	16,190,090	1,314,959
*,1	Clearfield Inc.	406,637	11,825		Dominion Energy Inc.	26,271,237	1,234,748
*	Aviat Networks Inc.	301,106	9,834		Waste		
*	Consolidated				Connections Inc.	8,082,030	1,206,405
	Communications				Constellation Energy		
	Holdings Inc.	2,207,355	9,602		Corp.	10,034,899	1,172,979
*	Ribbon				Exelon Corp.	31,178,428	1,119,306
	Communications				Xcel Energy Inc.	17,348,689	1,074,057
	Inc.	2,867,787	8,317		Republic		
	Spok Holdings Inc.	518,466	8,026		Services Inc.	0 405 707	1 050 075
	Comtech				Class A	6,405,767	1,056,375
	Telecommunications	060 060	7060		Consolidated	10.010.007	004 100
*	Corp.	862,269	7,269		Edison Inc.	10,818,867	984,192
*	Ooma Inc.	671,112	7,201		Public Service Enterprise		
*	WideOpenWest Inc.	1,564,532	6,336		Group Inc.	15,547,472	950,728
*	Kaltura Inc.	2,537,683	4,949		Edison International	12,029,114	859,961
	Lantronix Inc.	822,470	4,820		_aloon intornational	.2,020,114	333,301

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	WEC Energy		-		Clearway Energy Inc.		
	Group Inc.	9,912,059	834,298		Class C	2,398,522	65,791
	American Water	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		SJW Group	891,147	58,236
	Works Co. Inc.	6,153,045	812,140	*,1	Sunnova Energy	,	,
	Eversource Energy	10,949,537	675,805		International Inc.	3,224,684	49,176
	Entergy Corp.	6,626,534	670,539	1	Hawaiian Electric		
	PPL Corp.	23,112,577	626,351		Industries Inc.	3,431,740	48,696
	FirstEnergy Corp.	17,065,571	625,624		Northwest Natural		
	DTE Energy Co.	5,491,047	605,443		Holding Co.	1,097,419	42,734
	Ameren Corp.	8,245,107	596,451		Middlesex Water Co.	560,187	36,759
	CenterPoint		,		Clearway Energy Inc.		
	Energy Inc.	19,733,836	563,796		Class A	1,275,884	32,637
	Atmos Energy Corp.	4,643,847	538,222		Unitil Corp.	501,679	26,373
	CMS Energy Corp.	9,145,216	531,063	*	Enviri Corp.	2,563,153	23,068
	Vistra Corp.	11,232,423	432,673		Genie Energy Ltd.		
	Alliant Energy Corp.	7,909,642	405,765		Class B	742,474	20,886
	AES Corp.	21,029,862	404,825	*	Altus Power Inc.		
	Evergy Inc.	7,195,391	375,599		Class A	2,139,508	14,613
	NiSource Inc.	13,906,297	369,212		York Water Co.	329,364	12,720
	NRG Energy Inc.	7,107,443	367,455		Artesian Resources		
	Essential Utilities Inc		291,966		Corp. Class A	279,248	11,575
*	Clean Harbors Inc.	1,530,586	267,103	*,1	Vertex Energy Inc.	2,948,032	9,994
	Pinnacle West Capita		207, 103		Excelerate		
	Corp.	3,540,701	254,364		Energy Inc. Class A	635,447	9,824
	OGE Energy Corp.	6,267,999	218,941		Aris Water		
	UGI Corp.	6,585,644	162,007		Solutions Inc.	-0	0.000
	IDACORP Inc.	1,579,715	155,318	* 1	Class A	797,758	6,693
*	Casella Waste	1,373,713	133,310	*,1	NuScale Power Corp.	2.004.040	6 506
	Systems Inc.			*	Class A	2,004,840	6,596
	Class A	1,795,026	153,403		Pure Cycle Corp.	574,922	6,019
	National Fuel Gas Co		144,713		Global Water Resources Inc.	429,961	5,624
*	Stericycle Inc.	2,899,419	143,695	1	RGC Resources Inc.		5,024
	Portland General	2,000,	1.0,000	*,1	Net Power Inc.	254,995	
	Electric Co.	3,227,195	139,867	*		487,100	4,920
	New Jersey		,		Quest Resource Holding Corp.	558,617	4,095
	Resources Corp.	3,067,467	136,748	*,1	Cadiz Inc.	1,161,900	3,253
	Southwest Gas			*	Perma-Fix	1,101,000	0,200
	Holdings Inc.	2,127,158	134,755		Environmental		
*,1	Sunrun Inc.	6,468,884	126,984		Services Inc.	384,758	3,024
	Ormat			*,1	Agua Metals Inc.	2,952,345	2,244
	Technologies Inc.	1,604,698	121,620	*	Advanced Emissions	_,,-	_,
	Black Hills Corp.	2,191,346	118,223		Solutions Inc.	469,776	1,400
	PNM Resources Inc.	2,685,521	111,718		Via Renewables Inc.		
	ONE Gas Inc.	1,740,759	110,921		Class A	133,126	1,251
	ALLETE Inc.	1,810,125	110,707	*	Clean Energy		
	Northwestern Energy	<b>y</b>			Technologies Inc.	5,877	9
	Group Inc.	1,980,171	100,771	*	Vivakor Inc.	6,500	7
	Spire Inc.	1,564,013	97,501			_	38,324,782
	American States						30,324,702
	Water Co.	1,169,730	94,070		Common Stocks	_	
	California Water			(Cos	t \$697,129,605)	1	,454,196,493
	Service Group	1,808,764	93,821	Prefe	erred Stocks (0.0%)		
	Avista Corp.	2,411,770	86,197		Air T Funding Pfd.,		
	MGE Energy Inc.	1,149,589	83,127		8.000%, 6/7/24	956	16
	Avangrid Inc.	2,501,060	81,059	*,1,2	Next Bridge	000	.0
	Chesapeake Utilities	670.000	74 004		Hydrocarbons Inc.		
	Corp.	679,933	71,821		Preference Shares	1,763,201	_

			Market
		Shares	Value• (\$000)
*,2	BTCS Inc. Preference Shares	280,193	
	Preferred Stocks t \$5,124)		16
Righ	ts (0.0%)		
*,1,2	Frequency Therapeutics Inc. CVR	1,246,700	2,469
*,1,2	Tobira Therapeutics Inc.		
*,1,2	CVR Exp. 12/31/28 Cartesian Therapeutics Inc.	201,001	911
*,2	CVR Spectrum Pharmaceuticals Inc.	3,799,067	684
	CVR	5,990,797	488
*,2 *,2	Imara Inc. CVR Strongbridge	370,003 1,399,363	463
*,1	Biopharma plc CVR Groupon Inc. Exp. 1/17/24	698,916	253 239
*,1,2	Palisade Bio Inc. CVR	204,224	196
*,2	Ocera Therapeutics Inc. CVR	653,477	176
*,2	Surface Oncology Inc. CVR	1,709,153	161
*,2	Adamas Pharmaceuticals Inc. CVR	2,522,158	152
*,1,2	CinCor Pharma Inc. CVR	28,710	88
*,2	Gyre Therapeutics Inc. CVR	826,502	83
*,2	Aduro Biotech Inc. CVR	415,255	76
*,2 *,1,2	OncoMed Pharmaceuticals Inc. CVR	255,777	61
	Miragen Therapeutics Inc. CVR	1,753,041	35
*,2	Alexza Pharmaceuticals Inc. CVR	327,391	12
*,1,2	Oncternal Therapeutics Inc. CVR	8,933	9
*,2	F-star Therapeutics Inc. CVR	122,042	8
*,2	Dianthus Therapeutics Inc.		
*,2	CVR Ambit Biosciences	1,432,921	7
	Corp. CVR	201,330	_

		Shares	Market Value• (\$000)
*,2	Pineapple Energy Inc. CVR	69,639	_
*,2 *,1,2	ABIOMED Inc. CVR Disc Medicine Inc.	264	_
	CVR	275,152	_
*,1,2	Sesen Bio Inc. CVR	6,822,627	_
*,2	Neurogene Inc. CVR	98,708	
	Rights : \$5,213)		6,571
Warr	ants (0.0%)		
*,2	Cassava Sciences Inc. Exp. 11/15/24	495,152	2,364
*	Geron Corp. Exp.	430,102	2,304
	12/31/25	1,202,419	487
*	Presidio Property Trust Inc. Exp. 1/24/27 Hycroft Mining	110,319	7
	Holding Corp. Exp. 10/6/25	155,000	5
*	LGL Group Inc. Exp. 12/16/25	2,391	1
*	Ayala Pharmaceuticals Inc. Exp. 9/11/24	157,660	_
_	SELLAS Life Sciences Group Inc. Exp. 4/5/27	40,000	_
	Athenex Inc. Exp. 8/15/27	535,168	_
*,1,2	Imperalis Holding Corp. Exp. 4/13/28	1,503,700	_
Total (Cost	Warrants : \$9)		2,864
(Cost	: \$9)		2,864

	Shares	Market Value• (\$000)
Temporary Cash Investme	ents (0.4%)	
Money Market Fund (0.49 4.5 Vanguard Market Liquidity Fund, 5.435% (Cost \$5,978,690)	6) 59,806,782	5,979,482
Total Investments (100.1% (Cost \$703,118,641)	6)	1,460,185,426
Other Assets and Liabilities – Net (-0.1%)		(1,643,962)
Net Assets (100%)		1,458,541,464

#### Cost is in \$000.

- . See Note A in Notes to Financial Statements.
- \* Non-income-producing security.
- 1 Includes partial security positions on loan to broker-dealers. The total value of securities on loan is \$3,088,263,000.
- 2 Security value determined using significant unobservable inputs.
- 3 Considered an affiliated company of the fund as the fund owns more than 5% of the outstanding voting securities of such company
- 4 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 5 Collateral of \$3,557,335,000 was received for securities on loan. CVR—Contingent Value Rights.
  - REIT—Real Estate Investment Trust.

### 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 2024	4,453	455,920	32,365
E-mini S&P 500 Index	March 2024	11,234	2,707,394	8,382
E-mini S&P Mid-Cap 400 Index	March 2024	240	67,428	3,569
				44,316

### Over-the-Counter Total Return Swaps

Reference Entity	Termination Date	Counterparty	Notional Amount (\$000)	Floating Interest Rate Received (Paid) <sup>1</sup> (%)	Value and Unrealized Appreciation (\$000)	Value and Unrealized (Depreciation) (\$000)
Arbor Realty Trust Inc.	1/31/24	GSI	7,690	(5.331)	_	(112)
Citigroup Inc.	8/29/25	BANA	32,270	(5.932)	3,589	_
Fidelity National Information Services Inc.	8/30/24	BANA	32,838	(5.882)	942	_
Fidelity National Information Services Inc.	8/30/24	BANA	32,838	(5.882)	942	_
Fidelity National Information Services Inc.	8/30/24	BANA	30,000	(5.976)	_	(40)
Fidelity National Information Services Inc.	8/30/24	BANA	29,480	(5.979)	707	_
Fidelity National Information Services Inc.	8/30/24	BANA	29,470	(5.978)	477	_
Fidelity National Information Services Inc.	8/30/24	BANA	29,460	(5.979)	472	_
Fidelity National Information Services Inc.	8/30/24	BANA	29,360	(5.977)	592	_
Fidelity National Information Services Inc.	8/30/24	BANA	28,920	(5.977)	1,038	_
Global Payments Inc.	8/30/24	BANA	210,756	(5.932)	18,594	
Goldman Sachs Group Inc.	8/29/25	BANA	290,651	(6.032)	38,617	_
Invesco Ltd.	8/30/24	BANA	3,996	(5.882)	1,037	_
Invesco Ltd.	8/30/24	BANA	856	(5.882)	222	_
Paycor HCM Inc.	1/31/24	CITNA	4,242	(5.332)	59	
VICI Properties Inc. Class A	8/30/24	BANA	141,978	(5.982)	10,763	_
Visa Inc. Class A	8/30/24	BANA	57,753	(5.232)	708	_
Visa Inc. Class A	8/30/24	BANA	51,336	(5.332)	625	_
Yum! Brands Inc.	8/30/24	BANA	21,971	(5.332)	909	_
					80,293	(152)

<sup>1</sup> Based on USD Overnight Bank Funding Rate as of the most recent reset date. Floating interest payment received/paid monthly. BANA—Bank of America. N.A.

At December 31, 2023, the counterparties had deposited in segregated accounts securities with a value of \$90,828,000 in connection with open over-the-counter swap contracts.

CITNA—Citibank, N.A.

GSI-Goldman Sachs International.

## Statement of Assets and Liabilities

As of December 31, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value <sup>1</sup>	
Unaffiliated Issuers (Cost \$697,136,333)	1,454,203,653
Affiliated Issuers (Cost \$5,982,308)	5,981,773
Total Investments in Securities	1,460,185,426
Investment in Vanguard	45,961
Cash	34,993
Cash Collateral Pledged—Futures Contracts	155,110
Cash Collateral Pledged—Over-the-Counter Swap Contracts	60
Receivables for Investment Securities Sold	69,834
Receivables for Accrued Income	1,368,254
Receivables for Capital Shares Issued	1,101,323
Unrealized Appreciation—Over-the-Counter Swap Contracts	80,293
Total Assets	1,463,041,254
Liabilities	
Payables for Investment Securities Purchased	38,873
Collateral for Securities on Loan	3,557,335
Payables for Capital Shares Redeemed	871,000
Payables for Distributions	3
Payables to Vanguard	18,400
Variation Margin Payable—Futures Contracts	14,027
Unrealized Depreciation—Over-the-Counter Swap Contracts	152
Total Liabilities	4,499,790
Net Assets	1,458,541,464

<sup>1</sup> Includes \$3,088,263,000 of securities on loan.

### Statement of Assets and Liabilities (continued)

At December 31, 2023, net assets consisted of:	
(\$000s, except shares, footnotes, and per-share amounts)	Amount
Paid-in Capital	728,471,377
Total Distributable Earnings (Loss)	730,070,087
Net Assets	1,458,541,464
Investor Shares – Net Assets	
Applicable to 177,030,981 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	20,442,743
Net Asset Value Per Share—Investor Shares	\$115.48
ETF Shares – Net Assets	
Applicable to 1,466,627,292 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	347,955,269
Net Asset Value Per Share – ETF Shares	\$237.25
Admiral Shares—Net Assets	
Applicable to 2,947,229,792 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	340,379,287
Net Asset Value Per Share—Admiral Shares	\$115.49
Institutional Shares—Net Assets	
Applicable to 704,613,647 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	81,389,149
Net Asset Value Per Share—Institutional Shares	\$115.51
Institutional Plus Shares—Net Assets	
Applicable to 2,802,586,697 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	607,187,771
Net Asset Value Per Share—Institutional Plus Shares	\$216.65
Institutional Select Shares – Net Assets	
Applicable to 269,108,803 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	61,187,245
Net Asset Value Per Share—Institutional Select Shares	\$227.37
	_

### Statement of Operations

Year Ended December 31, 2023 (\$000)Investment Income Income Dividends—Unaffiliated Issuers1 20.631.366 Dividends—Affiliated Issuers 149 Interest—Unaffiliated Issuers 13.676 Interest—Affiliated Issuers 243.599 Securities Lending-Net 308.413 Total Income 21,197,203 Expenses The Vanguard Group—Note B Investment Advisory Services 32,625 Management and Administrative—Investor Shares 25.438 Management and Administrative—ETF Shares 67,204 Management and Administrative—Admiral Shares 101,815 Management and Administrative—Institutional Shares 18.148 Management and Administrative—Institutional Plus Shares 76.033 Management and Administrative—Institutional Select Shares 3,812 Marketing and Distribution—Investor Shares 1,054 Marketing and Distribution-ETF Shares 12.195 12,251 Marketing and Distribution—Admiral Shares Marketing and Distribution—Institutional Shares 2,279 Marketing and Distribution—Institutional Plus Shares 14.384 Marketing and Distribution—Institutional Select Shares 101 Custodian Fees 1,876 Auditing Fees 253 Shareholders' Reports-Investor Shares 188 Shareholders' Reports-ETF Shares 3,033 Shareholders' Reports—Admiral Shares 1,239 Shareholders' Reports—Institutional Shares 64 Shareholders' Reports—Institutional Plus Shares 2,413 Shareholders' Reports—Institutional Select Shares Trustees' Fees and Expenses 787 Interest Expense Other Expenses 138 377,330 Total Expenses Expenses Paid Indirectly (8) Net Expenses 377,322 Net Investment Income 20,819,881

### Statement of Operations (continued)

Statement of Operations (continued)	
	Year Ended December 31, 2023
	(\$000)
Realized Net Gain (Loss)	
Capital Gain Distributions Received—Affiliated Issuers	13
Investment Securities Sold—Unaffiliated Issuers <sup>2</sup>	24,251,460
Investment Securities Sold—Affiliated Issuers <sup>3</sup>	2,246
Futures Contracts	760,654
Swap Contracts	(23,641)
Realized Net Gain (Loss)	24,990,732
Change in Unrealized Appreciation (Depreciation)	
Investment Securities—Unaffiliated Issuers	256,421,058
Investment Securities—Affiliated Issuers	(2,621)
Futures Contracts	231,959
Swap Contracts	130,344
Change in Unrealized Appreciation (Depreciation)	256,780,740
Net Increase (Decrease) in Net Assets Resulting from Operations	302,591,353

<sup>1</sup> Dividends are net of foreign withholding taxes of \$2,051,000.

<sup>2</sup> Includes \$25,907,196,000 of net gain (loss) resulting from in-kind redemptions.

<sup>3</sup> Includes \$582,000 of net gain (loss) resulting from in-kind redemptions.

# Statement of Changes in Net Assets

	Year Ended December 31		
	2023 (\$000)	2022 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	20,819,881	18,662,820	
Realized Net Gain (Loss)	24,990,732	5,664,235	
Change in Unrealized Appreciation (Depreciation)	256,780,740	(294,464,966)	
Net Increase (Decrease) in Net Assets Resulting from Operations	302,591,353	(270,137,911)	
Distributions			
Investor Shares	(289,384)	(284,794)	
ETF Shares	(4,851,485)	(4,187,918)	
Admiral Shares	(4,859,268)	(4,513,747)	
Institutional Shares	(1,178,824)	(1,107,318)	
Institutional Plus Shares	(8,827,594)	(7,915,118)	
Institutional Select Shares	(811,797)	(713,492)	
Total Distributions	(20,818,352)	(18,722,387)	
Capital Share Transactions			
Investor Shares	(2,239,443)	(104,300,286)	
ETF Shares	21,896,112	25,952,138	
Admiral Shares	(108,385)	4,099,576	
Institutional Shares	(1,318,438)	(155,304,571)	
Institutional Plus Shares	(188,430)	295,703,507	
Institutional Select Shares	5,800,564	2,223,565	
Net Increase (Decrease) from Capital Share Transactions	23,841,980	68,373,929	
Total Increase (Decrease)	305,614,981	(220,486,369)	
Net Assets			
Beginning of Period	1,152,926,483	1,373,412,852	
End of Period	1,458,541,464	1,152,926,483	

#### **Investor Shares**

For a Share Outstanding			Yea	ar Ended De	cember 31,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$93.09	\$117.53	\$94.71	\$79.66	\$62.08
Investment Operations					
Net Investment Income <sup>1</sup>	1.536	1.335	1.284	1.284	1.279
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.401	(24.344)	22.837	15.026	17.634
Total from Investment Operations	23.937	(23.009)	24.121	16.310	18.913
Distributions					
Dividends from Net Investment Income	(1.547)	(1.431)	(1.301)	(1.260)	(1.333)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.547)	(1.431)	(1.301)	(1.260)	(1.333)
Net Asset Value, End of Period	\$115.48	\$93.09	\$117.53	\$94.71	\$79.66
Total Return <sup>3</sup>	25.89%	-19.60%	25.59%	20.87%	30.65%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$20,443	\$18,409	\$133,977	\$153,845	\$139,686
Ratio of Total Expenses to Average Net Assets	0.14%4	0.14%4	0.14%	0.14%	0.14%
Ratio of Net Investment Income to Average Net Assets	1.48%	1.28%	1.20%	1.62%	1.78%
Portfolio Turnover Rate <sup>5</sup>	2%	3%	4%	8%	4%
·					

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> 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.

<sup>4</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.14%.

<sup>5</sup> 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	ar Ended De	cember 31,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$191.25	\$241.49	\$194.61	\$163.70	\$127.56
Investment Operations					
Net Investment Income <sup>1</sup>	3.411	3.191	2.912	2.831	2.809
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	46.002	(50.248)	46.898	30.848	36.236
Total from Investment Operations	49.413	(47.057)	49.810	33.679	39.045
Distributions					
Dividends from Net Investment Income	(3.413)	(3.183)	(2.930)	(2.769)	(2.905)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(3.413)	(3.183)	(2.930)	(2.769)	(2.905)
Net Asset Value, End of Period	\$237.25	\$191.25	\$241.49	\$194.61	\$163.70
Total Return	26.03%	-19.50%	25.72%	20.95%	30.80%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$347,955	\$261,084	\$299,088	\$202,075	\$138,067
Ratio of Total Expenses to Average Net Assets	0.03%3	0.03%³	0.03%	0.03%	0.03%
Ratio of Net Investment Income to Average Net Assets	1.60%	1.55%	1.31%	1.73%	1.89%
Portfolio Turnover Rate <sup>4</sup>	2%	3%	4%	8%	4%
10111111					

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.03%.

<sup>4</sup> 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	ar Ended De	cember 31,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$93.10	\$117.56	\$94.74	\$79.69	\$62.09
Investment Operations					
Net Investment Income <sup>1</sup>	1.645	1.540	1.402	1.364	1.360
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.396	(24.460)	22.833	15.025	17.646
Total from Investment Operations	24.041	(22.920)	24.235	16.389	19.006
Distributions					
Dividends from Net Investment Income	(1.651)	(1.540)	(1.415)	(1.339)	(1.406)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.651)	(1.540)	(1.415)	(1.339)	(1.406)
Net Asset Value, End of Period	\$115.49	\$93.10	\$117.56	\$94.74	\$79.69
Total Return <sup>3</sup>	26.01%	-19.53%	25.71%	20.99%	30.80%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$340,379	\$274,489	\$341,733	\$273,622	\$252,536
Ratio of Total Expenses to Average Net Assets	0.04%4	0.04%4	0.04%	0.04%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.59%	1.54%	1.30%	1.72%	1.88%
Portfolio Turnover Rate <sup>5</sup>	2%	3%	4%	8%	4%

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> 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.

<sup>4</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.04%.

<sup>5</sup> 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	a Share Outstanding Year Ende				
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$93.12	\$117.58	\$94.75	\$79.70	\$62.10
Investment Operations					
Net Investment Income <sup>1</sup>	1.655	1.497	1.416	1.374	1.365
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	22.397	(24.407)	22.841	15.024	17.649
Total from Investment Operations	24.052	(22.910)	24.257	16.398	19.014
Distributions					
Dividends from Net Investment Income	(1.662)	(1.550)	(1.427)	(1.348)	(1.414)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.662)	(1.550)	(1.427)	(1.348)	(1.414)
Net Asset Value, End of Period	\$115.51	\$93.12	\$117.58	\$94.75	\$79.70
Total Return	26.02%	-19.51%	25.73%	21.00%	30.81%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$81,389	\$66,751	\$249,282	\$180,586	\$152,716
Ratio of Total Expenses to Average Net Assets	0.03%³	0.03%3	0.03%	0.03%	0.03%
Ratio of Net Investment Income to Average Net Assets	1.60%	1.46%	1.31%	1.73%	1.89%
Portfolio Turnover Rate <sup>4</sup>	2%	3%	4%	8%	4%

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.03%.

<sup>4</sup> 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.

## Financial Highlights

#### Institutional Plus Shares

For a Share Outstanding	Year Ended December 31				
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$174.63	\$220.49	\$177.69	\$149.47	\$116.46
Investment Operations					
Net Investment Income <sup>1</sup>	3.123	2.960	2.672	2.591	2.575
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	42.014	(45.906)	42.823	28.172	33.100
Total from Investment Operations	45.137	(42.946)	45.495	30.763	35.675
Distributions					
Dividends from Net Investment Income	(3.117)	(2.914)	(2.695)	(2.543)	(2.665)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(3.117)	(2.914)	(2.695)	(2.543)	(2.665)
Net Asset Value, End of Period	\$216.65	\$174.63	\$220.49	\$177.69	\$149.47
Total Return	26.03%	-19.51%	25.74%	21.02%	30.82%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$607,188	\$488,093	\$296,554	\$226,288	\$188,188
Ratio of Total Expenses to Average Net Assets	0.02%3	0.02%3	0.02%	0.02%	0.02%
Ratio of Net Investment Income to Average Net Assets	1.61%	1.59%	1.32%	1.74%	1.90%
Portfolio Turnover Rate <sup>4</sup>	2%	3%	4%	8%	4%

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.02%.

<sup>4</sup> 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.

## Financial Highlights

#### Institutional Select Shares

For a Share Outstanding	Year Ended December 31				
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$183.25	\$231.36	\$186.45	\$156.83	\$122.20
Investment Operations					
Net Investment Income <sup>1</sup>	3.312	3.093	2.821	2.772	2.709
Capital Gain Distributions Received	.0001,2	.0001,2	.0001,2	_	_
Net Realized and Unrealized Gain (Loss) on Investments	44.079	(48.139)	44.937	29.532	34.731
Total from Investment Operations	47.391	(45.046)	47.758	32.304	37.440
Distributions					
Dividends from Net Investment Income	(3.271)	(3.064)	(2.848)	(2.684)	(2.810)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(3.271)	(3.064)	(2.848)	(2.684)	(2.810)
Net Asset Value, End of Period	\$227.37	\$183.25	\$231.36	\$186.45	\$156.83
Total Return	26.05%	-19.50%	25.75%	21.03%	30.84%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$61,187	\$44,101	\$52,780	\$44,296	\$26,431
Ratio of Total Expenses to Average Net Assets	0.01%³	0.01%3	0.01%	0.01%	0.01%
Ratio of Net Investment Income to Average Net Assets	1.62%	1.57%	1.33%	1.76%	1.91%
Portfolio Turnover Rate <sup>4</sup>	2%	3%	4%	8%	4%

<sup>1</sup> Calculated based on average shares outstanding.

<sup>2</sup> Distribution was less than \$.001 per share.

<sup>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.01%.

<sup>4</sup> 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.

In March 2023, the board of trustees approved a plan of reorganization whereby the fund will reorganize from Vanguard Index Funds (such fund the "Predecessor Fund") to a newly created shell series under Vanguard Montgomery Funds. The purpose of the reorganization is to improve administrative efficiencies for all funds within the Vanguard complex by spreading the filing and reporting requirements across different legal entities. After the reorganization the surviving fund will be identical in its management to the Predecessor Fund and its investment objective, strategies, and policies will remain unchanged. The reorganization is anticipated to qualify as a tax-free reorganization under the Internal Revenue Code of 1986, as amended.

- **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 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 valuation designee to represent fair value and subject to oversight by the board of trustees. Investments in Vanguard Market Liquidity Fund are valued at that fund's net asset value. Other 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, 2023, 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 or indexes 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 prequalified counterparties, monitoring their financial strength, entering into master netting arrangements with its counterparties, and requiring its counterparties to transfer collateral as security for their performance. In the absence of a default, the collateral pledged or received by the fund cannot be repledged, resold, or rehypothecated. In the event of a counterparty's default (including bankruptcy), the fund may terminate any swap contracts with that counterparty, determine the net amount owed by either party in accordance with its master netting arrangements, and sell or retain any collateral held up to the net amount owed to the fund under the master netting arrangements. The swap contracts contain provisions whereby a counterparty may terminate open contracts if the fund'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, 2023, 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 virtually 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 and are 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, which 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 an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple

Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate 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.

For the year ended December 31, 2023, the fund did not utilize the Interfund Lending Program.

The fund made one borrowing from the uncommitted credit facility provided by Vanguard in the amount of \$1,000,000 to test the operational readiness of the process. The borrowing was outstanding for one business day at an annualized rate of 6.16%, and the related interest expense of less than \$500 is recorded in the Statement of Operations. At December 31, 2023, the fund had no borrowings outstanding.

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, 2023, the fund had contributed to Vanguard capital in the amount of \$45,961,000, representing less than 0.01% of the fund's net assets and 18.38% of Vanguard's capital received pursuant to the FSA. The fund's trustees and officers are also directors and employees, respectively, of Vanguard.

- C. The fund's custodian bank has agreed to reduce its fees when the fund maintains cash on deposit in the non-interest-bearing custody account. For the year ended December 31, 2023, custodian fee offset arrangements reduced the fund's expenses by \$8,000 (an annual rate of less than 0.01% of average net assets).
- **D.** 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, 2023, based on the inputs used to value them:

	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)	Total (\$000)
Investments				
Assets				
Common Stocks	1,454,190,053	_	6,440	1,454,196,493
Preferred Stocks	16	_	_	16
Rights	_	239	6,332	6,571
Warrants	13	487	2,364	2,864
Temporary Cash Investments	5,979,482	_	_	5,979,482
Total	1,460,169,564	726	15,136	1,460,185,426
Derivative Financial Instruments	i			
Assets				
Futures Contracts <sup>1</sup>	44,316	_	_	44,316
Swap Contracts	_	80,293	_	80,293
Total	44,316	80,293	_	124,609
Liabilities				
Swap Contracts	_	152	_	152
Liabilities Swap Contracts		·		

<sup>1</sup> 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.

E. 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 applicable in-kind redemptions, passive foreign investment companies, and swap agreements were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	25,908,235
Total Distributable Earnings (Loss)	(25,908,235)

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 capital loss carryforwards; 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	860,016
Undistributed Long-Term Gains	_
Net Unrealized Gains (Losses)	754,330,507
Capital Loss Carryforwards	(25,120,436)
Qualified Late-Year Losses	_
Other Temporary Differences	_
Total	730,070,087

The tax character of distributions paid was as follows:

	Year Ended	December 31,
	2023 Amount (\$000)	2022 Amount (\$000)
Ordinary Income*	20,818,352	18,722,387
Long-Term Capital Gains	_	_
Total	20,818,352	18,722,387

<sup>\*</sup> Includes short-term capital gains, if any.

As of December 31, 2023, 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	705,854,919
Gross Unrealized Appreciation	804,253,337
Gross Unrealized Depreciation	(49,922,830)
Net Unrealized Appreciation (Depreciation)	754,330,507

F. During the year ended December 31, 2023, the fund purchased \$91,161,813,000 of investment securities and sold \$61,460,229,000 of investment securities, other than temporary cash investments. Purchases and sales include \$33,362,418,000 and \$32,557,413,000, 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, 2023, such purchases were \$2,961,999,000 and sales were \$1,518,339,000, resulting in net realized loss of \$269,584,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

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

	Year Ended December 3				
			2022		
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
Investor Shares					
Issued	317,778	3,167	3,914,517	36,574	
Issued in Lieu of Cash Distributions	289,384	2,758	284,794	2,978	
Redeemed	(2,846,605)	(26,651)	(108,499,597)	(981,740)	
Net Increase (Decrease)—Investor Shares	(2,239,443)	(20,726)	(104,300,286)	(942,188)	
ETF Shares					
Issued	52,502,894	241,918	50,798,717	249,707	
Issued in Lieu of Cash Distributions	_	_	_	_	
Redeemed	(30,606,782)	(140,400)	(24,846,579)	(123,100)	
Net Increase (Decrease)—ETF Shares	21,896,112	101,518	25,952,138	126,607	
Admiral Shares					
Issued	26,313,081	254,268	31,898,755	317,329	
Issued in Lieu of Cash Distributions	4,050,962	38,521	3,762,619	39,309	
Redeemed	(30,472,428)	(293,822)	(31,561,798)	(315,336)	
Net Increase (Decrease)—Admiral Shares	(108,385)	(1,033)	4,099,576	41,302	

	Year Ended Decemb				
		2023		2022	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
Institutional Shares					
Issued	7,372,614	71,232	9,249,702	92,024	
Issued in Lieu of Cash Distributions	949,403	9,031	903,770	9,433	
Redeemed	(9,640,455)	(92,509)	(165,458,043)	(1,504,789)	
Net Increase (Decrease)—Institutional Shares	(1,318,438)	(12,246)	(155,304,571)	(1,403,332)	
Institutional Plus Shares					
Issued	35,342,057	188,265	320,489,415	1,582,401	
Issued in Lieu of Cash Distributions	8,750,147	44,372	7,850,659	43,753	
Redeemed	(44,280,634)	(224,992)	(32,636,567)	(176,178)	
Net Increase (Decrease)—Institutional Plus Shares	(188,430)	7,645	295,703,507	1,449,976	
Institutional Select Shares					
Issued	15,363,880	73,855	6,711,633	34,640	
Issued in Lieu of Cash Distributions	811,797	3,913	713,492	3,786	
Redeemed	(10,375,113)	(49,312)	(5,201,560)	(25,901)	
Net Increase (Decrease)—Institutional Select Shares	5,800,564	28,456	2,223,565	12,525	

H. 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. 2022	Purchases	Proceeds from Securities	Realized Net Gain	Change in Unrealized		Capital Gain	Dec. 31, 2023
	Market Value (\$000)	at Cost (\$000)	Sold (\$000)		App. (Dep.) (\$000)	Income (\$000)		Market Value (\$000)
1895 Bancorp of Wisconsin Inc.	NA¹	74	25	(12)	(1,029)	_	_	2,291
Franklin Financial Services Corp.	NA¹	6,573	4,827	582	271	149	_	NA <sup>2</sup>
Vanguard Market Liquidity Fund	10,588,790	ΝΑз	NA <sup>3</sup>	1,676	(1,863)	243,599	13	5,979,482
Total	10,588,790	6,647	4,852	2,246	(2,621)	243,748	13	5,981,773

<sup>1</sup> Not applicable—at December 31, 2022, the issuer was not an affiliated company of the fund.

<sup>2</sup> Not applicable—at December 31, 2023, the security was still held, but the issuer was no longer an affiliated company of the fund.

<sup>3</sup> Not applicable—purchases and sales are for temporary cash investment purposes.

I. Significant market disruptions, such as those caused by pandemics (e.g., COVID-19 pandemic), natural or environmental disasters, war (e.g., Russia's invasion of Ukraine), acts of terrorism, or other events, can adversely affect local and global markets and normal market operations. Any such disruptions could have an adverse impact on the value of the fund's investments and fund performance.

To the extent the fund's investment portfolio reflects concentration in a particular market, industry, sector, country or asset class, the fund may be adversely affected by the performance of these concentrations and may be subject to increased price volatility and other risks.

The use of derivatives may expose the fund to various risks. Derivatives can be highly volatile, and any initial investment is generally small relative to the notional amount so that transactions may be leveraged in terms of market exposure. A relatively small market movement may have a potentially larger impact on derivatives than on standard securities. Leveraged derivatives positions can, therefore, increase volatility. Additional information regarding the fund's use of derivative(s) and the specific risks associated is described under significant accounting policies.

J. Management has determined that no events or transactions occurred subsequent to December 31, 2023, 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, 2023, the related statement of operations for the year ended December 31, 2023, the statement of changes in net assets for each of the two years in the period ended December 31, 2023, including the related notes, and the financial highlights for each of the five years in the period ended December 31, 2023 (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, 2023, 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, 2023 and the financial highlights for each of the five years in the period ended December 31, 2023 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, 2023 by correspondence with the custodian, transfer agent and brokers; when replies were not received from brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania February 16, 2024

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

#### Tax information (unaudited)

For corporate shareholders, 88.3%, or if subsequently determined to be different, the maximum percentage allowable by law, of ordinary income (dividend income plus short-term gains, if any) for the fiscal year qualified for the dividends-received deduction.

The fund hereby designates \$19,710,816,000, or if subsequently determined to be different, the maximum amount allowable by law, as qualified dividend income for individual shareholders for the fiscal year.

The fund hereby designates \$97,469,000, or if subsequently determined to be different, the maximum amount allowable by law, of interest earned from obligations of the U.S. government which is generally exempt from state income tax.

The fund hereby designates \$1,107,536,000, or if subsequently determined to be different, the maximum amount allowable by law, of qualified business income for individual shareholders for 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 Vanquard Total Stock Market Index Fund is to be converted into cash, surrendered or redeemed, as the case may be. Neither CRSP nor the University has any obligation or liability in connection with the administration, marketing or trading of Vanguard Total Stock Market Index Fund. There is no assurance that investment products based on the Index will accurately track index performance or provide positive investment returns. Neither CRSP nor the University is an investment advisor. Inclusion of a security within an index is not a recommendation by CRSP or the University to buy, sell, or hold such security, nor is it considered to be investment advice.

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

## 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 208 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 Trustee<sup>1</sup>

#### 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.

#### **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, the advisory board of the University of California, Berkeley School of Engineering, and the advisory board of Santa Clara University's Leavey School of Business.

#### 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.

#### 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). 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.

<sup>1</sup> 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.

#### 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: co-founder and managing partner (2022–present) of Grafton Street Partners (investment advisory firm). Chief investment officer (retired 2020) and vice president (retired 2020) of the University of Notre Dame. Chair of the board of Catholic Investment Services, Inc. (investment advisors). Member of the board of superintendence of the Institute for the Works of Religion, the Notre Dame 403(b) Investment Committee, 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. Director of DuPont. 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 partner of HighVista Strategies (private investment firm). Member of the board of RIT Capital Partners (investment firm).

#### 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, Duke Law School (2021-present); Rubenstein Fellow, Duke University (2017-2020): Distinguished Fellow of the Global Financial Markets Center, Duke Law School (2020-2022); and Senior Fellow, Duke Center on Risk (2020-present). Partner of Kaya Partners (climate policy advisory services). Member of the board of directors of Arcadia (energy solution technology).

#### Grant Reid

Born in 1959. Trustee since July 2023. Principal occupation(s) during the past five years and other experience: chief executive officer and president (2014–2022) and member of the board of directors (2015–2022) of Mars, Incorporated (multinational manufacturer). Member of the board of directors of Marriott International, Inc. Chair of Agribusiness Task Force, Sustainable Markets Initiative.

#### **David 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. Trustee of Common Fund.

#### 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**

#### Jacqueline Angell

Born in 1974. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief compliance officer (November 2022–present) of Vanguard and of each of the investment companies served by Vanguard. Chief compliance officer (2018–2022) and deputy chief compliance officer (2017–2019) of State Street.

#### 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 (2017–2022) of each of the investment companies served by Vanguard. Partner (2005–2017) at KPMG (audit, tax, and advisory services).

#### 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).

#### Ashley Grim

Born in 1984. Principal occupation(s) during the past five years and other experience: treasurer (February 2022–present) of each of the investment companies served by Vanguard. Fund transfer agent controller (2019–2022) and director of Audit Services (2017–2019) at Vanguard. Senior manager (2015–2017) at PriceWaterhouseCoopers (audit and assurance, consulting, and tax services).

#### Jodi Miller

Born in 1980. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Finance director (2022–present) of each of the investment companies served by Vanguard. Head of Enterprise Investment Services (2020–present), head of Retail Client Services and Operations (2020–2022), and head of Retail Strategic Support (2018–2020) 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. Nonexecutive director (2022–present) of the board of National Grid (energy).

#### Michael Rollings

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

#### Vanguard Senior Management Team

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

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