# **Vanguard**<sup>®</sup>

Annual Report | December 31, 2022

# Vanguard U.S. Stock Index Funds Small-Capitalization Portfolios

Vanguard Small-Cap Index Fund

Vanguard Small-Cap Growth Index Fund

Vanguard Small-Cap Value Index Fund

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

### Your Fund's Performance at a Glance

- Despite some relief in midsummer and late fall, the 12 months ended December 31, 2022, were a volatile, challenging period for financial markets. Returns for the three Vanguard Small-Cap Index Funds ranged from –9.29% for ETF Shares of Vanguard Small-Cap Value Index Fund to –28.49% for Investor Shares of Vanguard Small-Cap Growth Index Fund. Each fund closely tracked its target index.
- Overall, the economic backdrop deteriorated as inflation soared to multidecade highs, driven by government spending during the pandemic as well as higher energy and food prices in the wake of Russia's invasion of Ukraine. That prompted aggressive tightening by many central banks to bring inflation back in check, which increased fears of recession
- Stock price declines, many of them severe, were widespread. Consumer discretionary stocks plunged, weighing most heavily on the Small-Cap Index and Small-Cap Value Index Funds, while losses in technology weighed heaviest on the Small-Cap Growth Index Fund.
- Energy was one sector that soared. The effect on the funds was slight, however, as energy accounted for only about 6% of each fund's benchmark index even after double-digit gains.
- For the 10 years ended December 31, 2022, the funds' annualized returns ranged from 9.13% for Investor Shares of the Small-Cap Growth Index Fund to 10.29% for Institutional Shares of the Small-Cap Value Index Fund.

	Average Annual Total Returr Periods Ended December 31, 202			
	One Year	Three Years	Five Years	
Stocks				
Russell 1000 Index (Large-caps)	-19.13%	7.35%	9.13%	
Russell 2000 Index (Small-caps)	-20.44	3.10	4.13	
Russell 3000 Index (Broad U.S. market)	-19.21	7.07	8.79	
FTSE All-World ex US Index (International)	-15.49	0.61	1.28	
Bonds				
Bloomberg U.S. Aggregate Float Adjusted Index (Broad taxable market)	-13.07%	-2.67%	0.06%	
Bloomberg Municipal Bond Index (Broad tax-exempt market)	-8.53	-0.77	1.25	
FTSE Three-Month U.S. Treasury Bill Index	1.50	0.70	1.24	
СЫ				
Consumer Price Index	6.45%	4.92%	3.78%	

## 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, 2022

SIX MOULTIS ETILEU DECETTIBET 31, 2022			
	Beginning Account Value 6/30/2022	Ending Account Value 12/31/2022	Expenses Paid During Period
Based on Actual Fund Return			
Small-Cap Index Fund			
Investor Shares	\$1,000.00	\$1,050.90	\$0.88
ETF Shares	1,000.00	1,051.70	0.26
Admiral™ Shares	1,000.00	1,051.60	0.26
Institutional Shares	1,000.00	1,051.60	0.21
Institutional Plus Shares	1,000.00	1,051.70	0.16
Small-Cap Growth Index Fund			
Investor Shares	\$1,000.00	\$1,021.40	\$0.97
ETF Shares	1,000.00	1,022.10	0.36
Admiral Shares	1,000.00	1,022.10	0.36
Institutional Shares	1,000.00	1,022.10	0.31
Small-Cap Value Index Fund			
Investor Shares	\$1,000.00	\$1,072.40	\$0.99
ETF Shares	1,000.00	1,073.30	0.37
Admiral Shares	1,000.00	1,073.00	0.37
Institutional Shares	1,000.00	1,073.00	0.31
Based on Hypothetical 5% Yearly Return			
Small-Cap Index Fund			
Investor Shares	\$1,000.00	\$1,024.35	\$0.87
ETF Shares	1,000.00	1,024.95	0.26
Admiral Shares	1,000.00	1,024.95	0.26
Institutional Shares	1,000.00	1,025.00	0.20
Institutional Plus Shares	1,000.00	1,025.05	0.15
Small-Cap Growth Index Fund			
Investor Shares	\$1,000.00	\$1,024.25	\$0.97
ETF Shares	1,000.00	1,024.85	0.36
Admiral Shares	1,000.00	1,024.85	0.36
Institutional Shares	1,000.00	1,024.90	0.31
Small-Cap Value Index Fund			
Investor Shares	\$1,000.00	\$1,024.25	\$0.97
ETF Shares	1,000.00	1,024.85	0.36
Admiral Shares	1,000.00	1,024.85	0.36
Institutional Shares	1,000.00	1,024.90	0.31

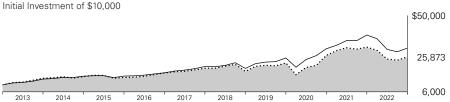
The calculations are based on expenses incurred in the most recent six-month period. The funds' annualized six-month expense ratios for that period are: for the Small-Cap Index Fund, 0.17% for Investor Shares, 0.05% for ETF Shares, 0.05% for Admiral Shares, 0.04% for Institutional Shares, and 0.03% for Institutional Plus Shares; for the Small-Cap Growth Index Fund, 0.19% for Investor Shares, 0.07% for ETF Shares, 0.07% for Admiral Shares, and 0.06% for Institutional Shares; and for the Small-Cap Value Index Fund, 0.19% for Investor Shares, 0.07% for ETF Shares, 0.07% for Admiral Shares, and 0.06% for Institutional 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).

# Small-Cap 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, 2012, Through December 31, 2022



#### Average Annual Total Returns Periods Ended December 31, 2022

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Index Fund Investor Shares	-17.71%	5.81%	9.97%	\$25,873
······ Spliced Small-Cap Index	-17.64	5.92	10.09	26,149
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Spliced Small-Cap Index: MSCI US Small Cap 1750 Index through January 30, 2013; CRSP US Small Cap Index thereafter.

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Index Fund ETF Shares Net Asset Value	-17.60%	5.94%	10.11%	\$26,194
Small-Cap Index Fund ETF Shares Market Price	-17.63	5.93	10.10	26,178
Spliced Small-Cap Index	-17.64	5.92	10.09	26,149
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Average A	nnual Total Returns
Periods Ended [	December 31, 2022

	1 OHOGO EH	_		
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Index Fund Admiral Shares	-17.61%	5.94%	10.11%	\$26,196
Spliced Small-Cap Index	-17.64	5.92	10.09	26,149
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Small-Cap Index Fund Institutional Shares	-17.60%	5.95%	10.12%	\$13,109,168
Spliced Small-Cap Index	-17.64	5.92	10.09	13,074,420
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	15,575,514

	One Year	Five Years	Ten Years	Final Value of a \$100,000,000 Investment
Small-Cap Index Fund Institutional Plus Shares	-17.60%	5.96%	10.13%	\$262,561,530
Spliced Small-Cap Index	-17.64	5.92	10.09	261,488,390
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	311,510,280

#### Cumulative Returns of ETF Shares: December 31, 2012, Through December 31, 2022

	One Year	Five Years	Ten Years
Small-Cap Index Fund ETF Shares Market Price	-17.63%	33.38%	161.78%
Small-Cap Index Fund ETF Shares Net Asset Value	-17.60	33.44	161.94
Spliced Small-Cap Index	-17.64	33.30	161.49

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, 2022

Basic Materials	4.2%
Consumer Discretionary	14.3
Consumer Staples	3.5
Energy	6.1
Financials	15.0
Health Care	12.0
Industrials	20.7
Real Estate	8.1
Technology	10.9
Telecommunications	1.4
Utilities	3.8

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, 2022

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

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
Comi	mon Stocks (99.5%)				Minerals		
Basic	Materials (4.2%)				Technologies Inc.	836,092	50,768
Duoid	Steel Dynamics Inc.	4,297,544	419.870		Materion Corp.	528,965	46,290
	Reliance Steel &	.,,,	,		Carpenter Technology	4 0 4 0 0 0 7	40.440
	Aluminum Co.	1,512,194	306,129		Corp. Westlake Corp.	1,248,287	46,112
*	Cleveland-Cliffs Inc.	13,278,097	213,910		Tronox Holdings plc	410,751	42,118
	Alcoa Corp.	4,558,964	207,296		Worthington	2,985,002	40,924
	Royal Gold Inc.	1,691,411	190,656		Industries Inc.	768,512	38,203
	Olin Corp.	3,529,002	186,825		Compass Minerals	700,512	30,203
*	RBC Bearings Inc.	747,829	156,558		International Inc.	880,503	36,101
	Valvoline Inc.	4,499,237	146,900		Kaiser Aluminum	000,000	00,101
	Commercial Metals				Corp.	410,727	31,199
	Co.	3,023,816	146,050		Mativ Holdings Inc.	1,415,738	29,589
	United States Steel				GrafTech International		
	Corp.	5,432,583	136,086		Ltd.	4,958,685	23,603
	Ashland Inc.	1,255,639	135,019	*	Coeur Mining Inc.	6,515,072	21,891
-	Univar Solutions Inc.	4,204,288	133,696	*	Ecovyst Inc.	2,181,636	19,329
	Hexcel Corp.	2,168,842	127,636		Schnitzer Steel		
	Huntsman Corp.	4,454,756	122,417		Industries Inc.		
	UFP Industries Inc.	1,508,738	119,568		Class A	620,320	19,013
	Timken Co.	1,686,877	119,212	*	Koppers Holdings Inc.	511,593	14,427
	Chemours Co.	3,888,480	119,065	*	Century Aluminum	4 00 4 5 40	40 500
	Element Solutions Inc.	-,,	102,114	* 1	Co.	1,294,542	10,589
	Balchem Corp.	827,986	101,105	*,1	Amyris Inc.	5,872,689_	8,985
*	Cabot Corp.	1,451,343	97,008				4,729,804
	Livent Corp.	4,621,796	91,835	Cons	sumer Discretionary (14	.3%)	
	Hecla Mining Co.	14,840,932	82,516	*	Liberty Media		
	Mueller Industries Inc. Avient Corp.	, ,	82,126		CorpLiberty		
	Sensient Technologies	2,343,288	79,109		Formula One Class C	, ,	303,166
	Corp.	1,083,149	78,983		Aramark	6,666,943	275,611
	Boise Cascade Co.	1,016,507	69,804		Deckers Outdoor Corp.	681,935	272,201
*	MP Materials Corp.	2,744,859	66,645		Service Corp.	001,933	272,201
	Innospec Inc.	638.126	65.638		International	3,764,731	260,293
*	Ingevity Corp.	914.739	64,434	*	Five Below Inc.	1,358,674	240,309
	NewMarket Corp.	190,711	59,332		Tapestry Inc.	6,208,606	236,424
	Stepan Co.	544,115	57,926	*	BJ's Wholesale Club	0,200,000	200, 12 1
	Quaker Chemical	01.,0	0.,020		Holdings Inc.	3,463,833	229,167
	Corp.	346,523	57,835	*	Wynn Resorts Ltd.	2,481,647	204,661
*	Arconic Corp.	2,614,835	55,330		Williams-Sonoma Inc.	1,714,922	197,079
	Scotts Miracle-Gro Co.		52,030	*	Capri Holdings Ltd.	3,377,489	193,598
			•		Churchill Downs Inc.	867,377	183,390

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Floor & Decor				Academy Sports &		
	Holdings Inc. Class A	2,597,574	180,869		Outdoors Inc.	2,054,482	107,942
	Dick's Sporting			*	American Airlines		
	Goods Inc.	1,464,847	176,206		Group Inc.	8,372,638	106,500
*	Planet Fitness Inc.			*	Hyatt Hotels Corp.		
	Class A	2,149,345	169,368		Class A	1,177,431	106,499
	Interpublic Group of Cos. Inc.	5,005,499	166,733	*	Wingstop Inc.	770,876	106,088
	Gentex Corp.	6,044,259	164,827		Asbury Automotive Group Inc.	570,313	102,229
*	Crocs Inc.	1,511,372	163,878		Ralph Lauren Corp.	370,313	102,225
*	Mattel Inc.	9,131,608	162,908		Class A	952,831	100,686
	Wyndham Hotels &	0,101,000	102,000		Choice Hotels	,	
	Resorts Inc.	2,275,810	162,288		International Inc.	892,640	100,547
	Nexstar Media				Wendy's Co.	4,391,080	99,370
	Group Inc. Class A	923,046	161,561	*	Fox Factory Holding		
	Texas Roadhouse Inc.				Corp.	1,089,058	99,355
	Class A	1,724,202	156,816		Whirlpool Corp.	702,248	99,340
	Murphy USA Inc.	523,946	146,464		Thor Industries Inc.	1,313,965	99,191
*	H&R Block Inc.	4,005,778	146,251	*	Boyd Gaming Corp.	1,747,952	95,316
	Skechers USA Inc.	2 / 50 111	145 060		Visteon Corp.	725,165	94,873
	Class A Pool Corp.	3,458,111 477,990	145,068 144,511	*	Lear Corp.	761,499	94,441
	Lithia Motors Inc.	477,990	144,511		Bright Horizons Family Solutions Inc.	1,488,001	93,893
	Class A	704,382	144,215	*	YETI Holdings Inc.	2,222,341	91,805
	Macy's Inc.	6,982,420	144,187		Foot Locker Inc.	2,404,056	90,849
	Tempur Sealy	0,000,000	,	*	Lyft Inc. Class A	8,170,990	90,044
	International Inc.	4,185,248	143,680	*	Avis Budget	0,170,000	00,011
	Polaris Inc.	1,418,714	143,290		Group Inc.	534,113	87,557
*	Light & Wonder Inc.	2,413,649	141,440	*	Meritage Homes		
	Harley-Davidson Inc.	3,389,923	141,021		Corp.	942,289	86,879
*	Alaska Air Group Inc.	3,268,146	140,334	*	Hilton Grand		
	Toll Brothers Inc.	2,774,009	138,479		Vacations Inc.	2,223,413	85,690
*	IAA Inc.	3,446,587	137,863	*	Grand Canyon	000 404	04.700
*	SiteOne Landscape			*	Education Inc.	802,481	84,790
	Supply Inc.	1,162,226	136,352		Taylor Morrison Home Corp. Class A	2,651,854	80,484
	U-Haul Holding Co.	2,448,822	134,636	*	National Vision	2,051,054	00,404
	Norwegian Cruise Line Holdings Ltd.	10,857,805	132,900		Holdings Inc.	2,033,342	78,812
	New York Times Co.	10,657,605	132,900	*	Chegg Inc.	3,071,432	77,615
	Class A	4,029,992	130,814		Signet Jewelers Ltd.	1,132,027	76,978
	Newell Brands Inc.	9,591,161	125,452		World Wrestling		
	Vail Resorts Inc.	519,461	123,814		Entertainment Inc.		
*,1	GameStop Corp.				Class A	1,116,335	76,491
	Class A	6,671,551	123,157		Kohl's Corp.	3,005,208	75,881
*	RH	458,474	122,500	*	Coty Inc. Class A	8,761,140	74,995
	TEGNA Inc.	5,753,570	121,918		Madison Square	400 200	74 005
	Marriott Vacations			*	Garden Sports Corp. Goodyear Tire &	408,200	74,835
*	Worldwide Corp.	888,658	119,604		Rubber Co.	7,288,264	73,976
	Penn	2 006 727	110 700		Travel + Leisure Co.	1,989,578	72,421
	Entertainment Inc. PVH Corp.	3,996,737 1,680,514	118,703 118,627	*	Skyline Champion	.,000,070	, _,
	Bath & Body	1,000,514	110,027		Corp.	1,393,361	71,772
	Works Inc.	2,795,085	117,785	*	elf Beauty Inc.	1,295,835	71,660
*,1	DraftKings Inc.	_,. 55,666	,, 00	*	Topgolf Callaway		
	Class A	9,830,427	111,969		Brands Corp.	3,572,115	70,549
	Leggett & Platt Inc.	3,415,898	110,094		Columbia Sportswear		
*	AutoNation Inc.	1,021,731	109,632		Co.	800,247	70,086
					Carter's Inc.	934,085	69,692

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
-	Gap Inc.	6,113,567	68,961		Strategic		
*	Helen of Troy Ltd.	618,155	68,560		Education Inc.	567,125	44,417
	Papa John's	010,100	00,000	*	Frontdoor Inc.	2,099,735	43,674
	International Inc.	819,206	67,429		Inter Parfums Inc.	451,750	43,603
*	Victoria's Secret & Co.	1,884,039	67,411		John Wiley &	101,700	10,000
*	Wayfair Inc. Class A	1,993,305	65,560		Sons Inc. Class A	1,082,449	43,363
	Group 1	1,000,000	03,300	*,1	Leslie's Inc.	3,537,020	43,187
	Automotive Inc.	356,886	64,372	*	Six Flags	0,007,020	10,107
	Penske Automotive	330,000	04,572		Entertainment Corp.	1,821,211	42,343
	Group Inc.	551,124	63,341	*	Driven Brands	1,021,211	42,040
	KB Home	1,984,444	63,205		Holdings Inc.	1,509,713	41,230
*	Ollie's Bargain Outlet	1,304,444	03,203		MillerKnoll Inc.	1,946,878	40,904
	Holdings Inc.	1,312,867	61,495	*	Shake Shack Inc.	1,040,070	40,004
*,1	Peloton	1,512,007	01,433		Class A	961,508	39,931
,.	Interactive Inc.				Cheesecake	001,000	00,001
	Class A	7,674,392	60,935		Factory Inc.	1,258,652	39,912
	American Eagle	7,071,002	00,000	1	Nordstrom Inc.	2,468,653	39,844
	Outfitters Inc.	4,346,147	60,672	*	Adtalem Global	2,400,000	33,044
	Rush Enterprises Inc.	4,040,147	00,072		Education Inc.	1,111,443	39,456
	Class A	1,148,733	60,056		PriceSmart Inc.	637,032	38,719
*	Hertz Global	1,140,700	00,000	*			,
	Holdings Inc.	3,871,770	59,587	*	Knowles Corp.	2,343,490	38,480
	Steven Madden Ltd.	1,806,037	57,721		Dave & Buster's Entertainment Inc.	1.056.440	27440
	LCI Industries	622,477	57,548	*		1,056,443	37,440
1	Hanesbrands Inc.				Urban Outfitters Inc.	1,543,757	36,819
		8,990,996	57,183		Laureate		
	Kontoor Brands Inc.	1,429,138	57,151		Education Inc. Class A	2 010 244	26 721
	Graham Holdings Co. Class B	02.022	EC 740		Monro Inc.	3,818,244	36,731
*		93,923	56,749	*		810,536	36,636
	Gentherm Inc.	855,403	55,849		KAR Auction	0.000.004	20,000
*,1	AMC Entertainment	10 700 050	FF 700		Services Inc.	2,806,094	36,620
	Holdings Inc. Class A		55,762		Jack in the Box Inc.	535,437	36,533
Ĵ	Dorman Products Inc.	688,131	55,649		Oxford Industries Inc.	389,547	36,298
*	Sonos Inc.	3,264,121	55,164	*	Brinker		
	Spirit Airlines Inc.	2,804,903	54,639		International Inc.	1,134,565	36,204
	Cracker Barrel Old				Central Garden & Pet	4 007704	00.070
	Country Store Inc.	571,134	54,109		Co. Class A	1,007,794	36,079
*	JetBlue Airways Corp.	8,345,579	54,079		Buckle Inc.	774,394	35,119
*	Sabre Corp.	8,460,760	52,287		Levi Strauss & Co.		
	Red Rock Resorts Inc.				Class A	2,244,397	34,833
	Class A	1,270,284	50,824		Acushnet Holdings		
	Dana Inc.	3,324,318	50,297		Corp.	814,073	34,566
*	Under Armour Inc.			*	Sally Beauty	0.750.005	0.4.500
	Class A	4,847,004	49,246		Holdings Inc.	2,758,205	34,533
*	Duolingo Inc. Class A	685,056	48,728	*,1	QuantumScape Corp.		
*	SeaWorld				Class A	5,970,877	33,855
	Entertainment Inc.	905,288	48,442	*	Stride Inc.	1,053,378	32,950
*	Tri Pointe Homes Inc.	2,599,959	48,333	1	Dillard's Inc. Class A	101,608	32,840
*	PowerSchool			*,1	iRobot Corp.	669,519	32,224
	Holdings Inc. Class A	2,055,371	47,438	*,1	Fisker Inc. Class A	4,395,503	31,955
*	TripAdvisor Inc.	2,634,160	47,362	*	Liberty Media		
*	LGI Homes Inc.	510,089	47,234		CorpLiberty		
	MDC Holdings Inc.	1,468,844	46,415		Formula One Class A	597,480	31,923
*	ODP Corp.	1,003,245	45,688	*	Madison Square		
	Bloomin' Brands Inc.	2,262,092	45,513		Garden		
*	Under Armour Inc.	_,,	.0,010		Entertainment Corp.	677,705	30,476
	Class C	5,035,569	44,917	*,1	Dutch Bros Inc.		
	0.000	2,300,000	11,017		Class A	1,056,180	29,774
				*	Coursera Inc.	2,454,994	29,043

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Luminar			-	Sinclair Broadcast		
	Technologies Inc.				Group Inc. Class A	1,063,286	16,492
	Class A	5,818,749	28,803		Steelcase Inc. Class A	2,259,642	15,976
	HNI Corp.	1,012,533	28,786	*	BJ's Restaurants Inc.	572,633	15,106
	Scholastic Corp.	705,729	27,848	*	Life Time Group		
*	Abercrombie & Fitch				Holdings Inc.	1,250,941	14,961
	Co. Class A	1,210,540	27,733		Interface Inc. Class A	1,498,871	14,794
	Rent-A-Center Inc.	1,219,223	27,493		Guess? Inc.	701,271	14,509
*	Allegiant Travel Co.	402,926	27,395	*	G-III Apparel Group		
	La-Z-Boy Inc.	1,108,780	25,302		Ltd.	1,040,051	14,259
*	ACV Auctions Inc.			*	Qurate Retail Inc.		
	Class A	3,032,032	24,893		Class A	8,669,961	14,132
	Dine Brands			*,1	Corsair Gaming Inc.	1,035,642	14,054
	Global Inc.	383,755	24,791		U-Haul Holding Co.	232,881	14,017
*	Cavco Industries Inc.	109,017	24,665	*	Sleep Number Corp.	538,573	13,992
*	Cinemark			*	Poshmark Inc. Class A	772,689	13,816
	Holdings Inc.	2,795,845	24,212	*,1	Bowlero Corp.	990,099	13,347
*	Boot Barn			*	Sun Country Airlines		
	Holdings Inc.	384,121	24,015		Holdings Inc.	824,281	13,073
*,1	Revolve Group Inc.	4 0 40 700	00.000	*	Hawaiian		
	Class A	1,049,769	23,368		Holdings Inc.	1,258,611	12,913
	Sturm Ruger & Co.	4EE 10E	22.041		Designer Brands Inc.		
*	Inc.	455,185	23,041		Class A	1,310,208	12,814
	Overstock.com Inc.	1,178,658	22,819	*	Integral Ad Science		
	Matthews International Corp.			*	Holding Corp.	1,387,448	12,196
	Class A	741,697	22,577		2U Inc.	1,911,575	11,986
*	Cars.com Inc.	1,631,039	22,459	*,1 *	Carvana Co. Class A	2,456,974	11,646
	Wolverine World	1,031,033	22,433	*	AMC Networks Inc.	700 404	44 445
	Wide Inc.	2,029,193	22,179		Class A	730,404	11,445
*	Figs Inc. Class A	3,279,476	22,071		Big Lots Inc.	708,542	10,416
*	American Axle &	0,270,170	22,071	* 4	Caleres Inc.	446,323	9,944
	Manufacturing			*,1	SES Al Corp.	3,146,358	9,911
	Holdings Inc.	2,804,038	21,928	_	Clear Channel		
1	Camping World				Outdoor Holdings Inc.	9,199,786	9,660
	Holdings Inc. Class A	977,013	21,807	*	Lions Gate	3,133,760	3,000
*	PROG Holdings Inc.	1,289,141	21,774		Entertainment Corp.		
*	SkyWest Inc.	1,303,921	21,528		Class A	1,609,720	9,191
*	Udemy Inc.	2,003,079	21,132	*	Vizio Holding Corp.	.,,	-,
*	EW Scripps Co.				Class A	1,218,023	9,026
	Class A	1,567,385	20,674	*	Sciplay Corp. Class A	555,645	8,935
	Sonic Automotive Inc.			*	Central Garden & Pet	,	,
	Class A	411,127	20,256		Co.	234,175	8,770
*	Petco Health &			*	Frontier Group		
	Wellness Co. Inc.				Holdings Inc.	841,662	8,644
	Class A	2,055,583	19,487	*,1	Canoo Inc.	6,380,382	7,848
*,1	Sweetgreen Inc.	0.404.000	40.000	*	Genesco Inc.	160,021	7,364
	Class A	2,131,668	18,268	*,1	ContextLogic Inc.		
*,1	Mister Car Wash Inc.	1,964,762	18,135		Class A	14,833,843	7,234
1 *	Krispy Kreme Inc.	1,725,731	17,810	*	Children's Place Inc.	159,480	5,808
*	Vista Outdoor Inc.	728,825	17,761	*,1	Arhaus Inc. Class A	546,121	5,325
	iHeartMedia Inc.	0.000.050	47044	*,1	Cricut Inc. Class A	562,032	5,210
*	Class A	2,823,959	17,311		Global Industrial Co.	218,342	5,138
*	Lions Gate				Smith & Wesson		
	Entertainment Corp. Class B	3,185,381	17,297		Brands Inc.	589,769	5,119
*,1	Portillo's Inc. Class A	1,039,095	16,958	*	Rush Street		
*	GoPro Inc. Class A	3,341,004	16,638		Interactive Inc.	1,404,937	5,044
	GOLLO IIIC. CIASS A	5,541,004	10,030				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Dream Finders			*	United Natural		
	Homes Inc. Class A	544,426	4,715		Foods Inc.	1,543,445	59,747
*	Zumiez Inc.	200,665	4,362		WD-40 Co.	349,871	56,403
*	Angi Inc. Class A	1,731,259	4,068		Cal-Maine Foods Inc.	1,023,521	55,731
1	Weber Inc. Class A	478,607	3,853		Edgewell Personal		
*	Vacasa Inc. Class A	3,021,350	3,807		Care Co.	1,325,455	51,083
	Rush Enterprises Inc.				Nu Skin		
	Class B	65,306	3,675		Enterprises Inc.		
*,1	Bed Bath &				Class A	1,209,705	51,001
	Beyond Inc.	1,435,420	3,603		J & J Snack Foods		
*	Stitch Fix Inc. Class A	990,274	3,080		Corp.	297,119	44,482
*	Allbirds Inc. Class A	1,239,131	2,999		Reynolds Consumer		
*	Cardlytics Inc.	405,881	2,346		Products Inc.	1,351,844	40,528
*	Latham Group Inc.	527,978	1,700		Vector Group Ltd.	3,390,027	40,206
*	Brilliant Earth			*	Herbalife Nutrition		
	Group Inc. Class A	260,654	1,123		Ltd.	2,521,888	37,526
		_	16,061,329	*	Hain Celestial	0.004.005	07000
Con	sumer Staples (3.5%)		10,001,323		Group Inc.	2,301,335	37,236
COII	Bunge Ltd.	3,859,730	385,085		Weis Markets Inc.	415,871	34,222
*	Darling	3,053,750	303,003		Medifast Inc.	281,577	32,480
	Ingredients Inc.	4,129,546	258,468		Universal Corp.	601,128	31,746
*	Performance Food	4,123,340	250,400		Utz Brands Inc.	1,769,904	28,071
	Group Co.	4,011,131	234,210	*	National Beverage		07070
	Casey's General	1,011,101	201,210		Corp.	601,184	27,973
	Stores Inc.	959,952	215,365		Andersons Inc.	776,966	27,186
*	US Foods Holding	000,002	2.0,000		Fresh Del Monte	000 070	05.000
	Corp.	5,215,146	177,419		Produce Inc.	986,272	25,830
	Lamb Weston	., .,	, -	* 4	Seaboard Corp.	5,985	22,595
	Holdings Inc.	1,852,952	165,580	*,1	Beauty Health Co.	2,398,188	21,823
	Ingredion Inc.	1,604,658	157,144		Pilgrim's Pride Corp.	913,712	21,682
	Flowers Foods Inc.	5,168,391	148,540	1	B&G Foods Inc.	1,846,655	20,590
*	Post Holdings Inc.	1,358,922	122,656	_	Duckhorn	1 107000	10.070
	Molson Coors	,,-	,	* 4	Portfolio Inc.	1,187,282	19,673
	Beverage Co.			*,1	Beyond Meat Inc.	1,478,173	18,196
	Class B	2,320,593	119,557		Tootsie Roll	415.004	17.070
*	Celsius Holdings Inc.	1,080,230	112,387	*	Industries Inc.	415,264	17,678
	Lancaster Colony				USANA Health Sciences Inc.	206 072	15 700
	Corp.	496,915	98,041	*	Sovos Brands Inc.	296,973	15,799
*	Simply Good Foods					910,575	13,085
	Co.	2,550,969	97,013	*	ACCO Brands Corp.	2,307,495	12,899
*	BellRing Brands Inc.	3,464,588	88,832	*,1	Olaplex Holdings Inc.	1,255,291	6,540
*	Sprouts Farmers			*	BRC Inc. Class A	1,055,317	6,448
	Market Inc.	2,727,405	88,286	*,2	Vital Farms Inc.	314,823	4,697
*	Boston Beer Co. Inc.			-,2	Fresh Market Inc.	709,594_	
	Class A	237,172	78,153				3,892,936
*	Hostess Brands Inc.	0.440.000	==0	Ener	rgy (6.0%)		
	Class A	3,449,638	77,410		Targa Resources Corp.	5,832,853	428,715
*	TreeHouse Foods Inc.	1,445,009	71,355	*	First Solar Inc.	2,609,564	390,887
*	Grocery Outlet				APA Corp.	8,284,019	386,698
	Holding Corp.	2,255,838	65,848		Ovintiv Inc.	6,396,643	324,374
	Spectrum Brands	1 050 000	04.000		Chesapeake Energy	•	•
*	Holdings Inc.	1,050,980	64,026		Corp.	3,279,491	309,486
-	Freshpet Inc.	1,175,474	62,030		NOV Inc.	10,121,137	211,431
	Energizer	1 006 040	61 600	*	Antero Resources		
	Holdings Inc.	1,836,946	61,629		Corp.	6,573,096	203,700
	Coca-Cola Consolidated Inc.	118,561	60,746		HF Sinclair Corp.	3,620,234	187,854
	Consolidated IIIC.	110,001	00,740				

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
	Texas Pacific Land	70.007			Warrior Met Coal Inc.	1,330,914	46,103
*	Corp. Southwestern Energy Co.	79,327 28,434,851	185,961 166,344	Î	Oceaneering International Inc.	2,583,317	45,182
	Matador Resources Co.	2,892,366	165,559		Permian Resources Corp. Class A	4,461,250	41,936
	Murphy Oil Corp.	3,805,251	163,664		World Fuel Services Corp.	1,515,760	41,426
	PDC Energy Inc.	2,374,110	150,708		Enviva Inc.	774,621	41,032
	ChampionX Corp.	5,136,698	148,913	*	SunPower Corp.	2,243,957	40,458
	Range Resources	3,100,000	140,010	*	NOW Inc.	2,845,832	36,142
	Corp.	5,914,458	147,980		Archrock Inc.	4,009,552	36,006
	EQT Corp.	4,255,776	143,973	*,1	Stem Inc.	3,781,571	33,807
	Chord Energy Corp.	1,018,474	139,337		Comstock	-,,	,
	DT Midstream Inc.	2,492,885	137,757		Resources Inc.	2,409,203	33,030
	PBF Energy Inc.			*	FuelCell Energy Inc.	10,450,709	29,053
	Class A Helmerich &	3,054,455	124,561	*	Sitio Royalties Corp. ProPetro Holding	943,151	27,210
	Payne Inc.	2,444,020	121,150		Corp.	2,506,680	25,994
	SM Energy Co.	3,163,966	110,201	*	MRC Global Inc.	2,154,512	24,949
*	Denbury Inc.	1,219,033	106,080		CVR Energy Inc.	777,085	24,354
	Magnolia Oil & Gas				Core Laboratories NV	1,194,868	24,220
	Corp. Class A	4,347,837	101,957	*	Dril-Quip Inc.	830,312	22,560
	Patterson-UTI				RPC Inc.	2,232,701	19,849
	Energy Inc.	5,586,618	94,079	*,1	Fluence Energy Inc.		,
	Antero Midstream	0.040.704	00.400		Class A	1,039,483	17,827
	Corp.	8,013,764	86,468	1	Kinetik Holdings Inc.		
	California Resources	1,893,039	82,366		Class A	444,054	14,689
	Corp. Cactus Inc. Class A	1,564,531	78,633	*	ProFrac Holding Corp.		
*	Peabody Energy Corp.		78,033 78,367	*	Class A	556,067	14,013
*	Transocean Ltd.	16,740,942	76,339		Helix Energy Solutions	1 050 262	10 714
	Civitas Resources Inc.		76,226		Group Inc.	1,858,263	13,714
	Equitrans Midstream	1,515,626	70,220		Crescent Energy Co. Class A	995,324	11,934
	Corp.	11,151,466	74,715	*	Tellurian Inc.	6,549,200	11,003
*	CNX Resources Corp.	4,417,683	74,394	*,1	EVgo Inc. Class A	1,786,416	7,985
*	Array	., ,	,	*,1	OPAL Fuels Inc.	1,700,410	7,505
	Technologies Inc. New Fortress	3,683,659	71,205	*	Class A Denbury Inc. Warrants	97,574	710
	Energy Inc.	1,626,046	68,977		Exp. 9/18/23	2	_
	Arcosa Inc.	1,245,894	67,702		Exp. 0/10/20	-	0.700.700
	Liberty Energy Inc.	, .,	- , -				6,780,796
	Class A	4,224,232	67,630	Finai	ncials (14.9%)	10 001 000	220,000
*,1	ChargePoint				First Horizon Corp.	13,831,339	338,868
	Holdings Inc.	7,005,973	66,767		American Financial Group Inc.	1,864,768	255,995
	Arch Resources Inc.	465,906	66,527		Reinsurance Group of	1,004,700	233,333
*	Callon Petroleum Co.	1,587,423	58,877		America Inc.	1,722,130	244,697
*	Shoals Technologies				East West	.,,,,,,,,,	2,007
	Group Inc. Class A	2,232,193	55,068		Bancorp Inc.	3,631,677	239,328
	Alpha Metallurgical Resources Inc.	240 196	E1 117		Comerica Inc.	3,374,119	225,560
*	Noble Corp. plc	349,186 1,350,114	51,117		Webster Financial		
*	NexTier Oilfield	1,350,114	50,913		Corp.	4,483,579	212,253
	Solutions Inc.	5,377,326	49,686		Invesco Ltd.	11,718,023	210,807
	Delek US	0,077,020	13,000		LPL Financial		
	Holdings Inc.	1,795,722	48,484		Holdings Inc.	974,192	210,591
*	Ameresco Inc. Class A		47,434		RenaissanceRe	4 400 050	00745
*	Weatherford		•		Holdings Ltd.	1,126,059	207,454
	International plc	910,169	46,346				

	Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
Cullen/Frost				Valley National		
Bankers Inc.	1,491,087	199,358		Bancorp	11,089,982	125,428
First Citizens				Popular Inc.	1,873,017	124,218
BancShares Inc.				Lincoln National Corp.	3,925,240	120,583
Class A	260,858	197,824		First Financial	-,,-	,
Commerce				Bankshares Inc.	3,491,624	120,112
Bancshares Inc.	2,906,094	197,818	1	Blue Owl Capital Inc.		,
Carlyle Group Inc.	6,558,093	195,693		Class A	11,301,328	119,794
Zions Bancorp NA	3,855,016	189,513		FNB Corp.	9,038,418	117,951
Signature Bank	1,621,355	186,813		Cadence Bank	4,701,425	115,937
SEI Investments Co		182,283		Bank OZK	2,877,596	115,276
Unum Group	4,361,023	178,933		Home	2,077,000	110,270
Old Republic	.,001,020	., 0,000		BancShares Inc.	4,992,815	113,786
International Corp.	7,056,629	170,418		Houlihan Lokey Inc.	4,002,010	110,700
Assurant Inc.	1,361,294	170,243		Class A	1,284,497	111,957
Brown & Brown Inc		166,297		Hanover Insurance	1,201,107	111,007
Erie Indemnity Co.	. 2,010,022	100,237		Group Inc.	824,706	111,443
Class A	654,540	162,797		SLM Corp.	6,446,443	107,011
Prosperity	034,340	102,737		Axis Capital Holdings	0,440,443	107,011
Bancshares Inc.	2,235,111	162,448		Ltd.	1,963,391	106,357
Western Alliance	2,233,111	102,440		Essent Group Ltd.	2,636,407	100,557
Bancorp	2,665,970	158,785			2,030,407	102,504
Voya Financial Inc.	2,503,689	153,952		Hancock Whitney Corp.	2,097,590	101,502
Affiliated Managers	2,303,003	100,002		American Equity	2,037,530	101,502
Group Inc.	970,575	153,768		Investment Life		
	370,373	155,766		Holding Co.	2,208,403	100,747
AGNC Investment Corp.	14 720 556	152 /51		Umpqua Holdings	2,200,403	100,747
· ·	14,729,556	152,451		Corp.	5,592,985	99,835
Stifel Financial Corp		151,853		Rithm Capital Corp.	12,205,427	,
SouthState Corp.	1,950,429	148,935		MGIC Investment	12,200,427	99,718
Kinsale Capital	E04.004	447757			7652.051	00.400
Group Inc.	564,994	147,757		Corp.	7,653,051	99,490
RLI Corp.	1,110,813	145,816		Independent Bank Corp.	1,176,106	99,299
New York Communi	,	440.007		'		
Bancorp Inc.	16,651,983	143,207		Lazard Ltd. Class A	2,760,195	95,696
Morningstar Inc.	656,236	142,134		OneMain	0.004.000	04 401
Jefferies Financial				Holdings Inc.	2,834,006	94,401
Group Inc.	4,130,044	141,578		Assured Guaranty Ltd.	1,468,500	91,429
Glacier Bancorp Inc.	2,854,063	141,048	-	Brighthouse	4 704 000	04.000
United				Financial Inc.	1,781,202	91,322
Bankshares Inc.	3,469,648	140,486	_	Ryan Specialty	0 171 170	00.100
Starwood Property				Holdings Inc. Class A	2,1/1,4/3	90,138
Trust Inc.	7,577,674	138,899		White Mountains	00.017	00 107
Selective Insurance				Insurance Group Ltd.	63,017	89,127
Group Inc.	1,553,128	137,623		Blackstone Mortgage	4 400 400	00 550
Pinnacle Financial			* 4	Trust Inc. Class A	4,183,103	88,556
Partners Inc.	1,871,473	137,366	*,1	SoFi Technologies Inc.		88,179
Globe Life Inc.	1,127,817	135,958		CVB Financial Corp.	3,422,191	88,121
Old National Bancor	p 7,546,767	135,691		United Community		
Primerica Inc.	950,742	134,834		Banks Inc.	2,598,802	87,840
Synovus Financial				Evercore Inc. Class A	800,523	87,321
Corp.	3,560,477	133,696		Community Bank		
First American				System Inc.	1,384,526	87,156
Financial Corp.	2,534,503	132,656		ServisFirst		
Wintrust Financial				Bancshares Inc.	1,259,758	86,810
Corp.	1,565,664	132,330		First Hawaiian Inc.	3,289,808	85,667
* Robinhood				Associated Banc-Corp	3,680,481	84,982
Markets Inc. Class	A 15,642,003	127,326		Ally Financial Inc.	3,464,683	84,711
				UMB Financial Corp.	995,900	83,178
				,	•	•

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	FirstCash				Independent Bank		
	Holdings Inc.	954,764	82,979		Group Inc.	902,158	54,202
	Kemper Corp.	1,646,117	80,989		WesBanco Inc.	1,447,983	53,546
	Janus Henderson				Park National Corp.	377,093	53,076
	Group plc	3,414,665	80,313		Hamilton Lane Inc.		
	Ameris Bancorp	1,697,577	80,024		Class A	829,535	52,991
	Bank of Hawaii Corp. Federated	1,030,970	79,962		Renasant Corp. Artisan Partners Asset	1,369,654	51,485
*,1	Hermes Inc. Class B Credit Acceptance	2,178,121	79,088		Management Inc. Class A	1,662,298	49,370
,.	Corp.	166,490	78,983		Trustmark Corp.	1,413,546	49,347
	First Interstate BancSystem Inc.	100, 100	70,000		Virtu Financial Inc. Class A	2,380,676	48,590
	Class A	2,018,260	78,006	*	Focus Financial	, ,	
*	Texas Capital Bancshares Inc.	1,285,770	77,545		Partners Inc. Class A Northwest	1,272,907	47,441
	Pacific Premier	1,200,770	77,040		Bancshares Inc.	3,272,166	45,745
	Bancorp Inc.	2,448,149	77,264		NBT Bancorp Inc.	1,048,600	45,530
	Radian Group Inc.	4,045,846	77,154	*	Trupanion Inc.	948,060	45,061
	Cathay General	,, -	, -	1	Claros Mortgage	010,000	10,001
	Bancorp	1,821,442	74,297		Trust Inc.	3,030,593	44,580
	Fulton Financial Corp.	4,315,649	72,632		TPG Inc. Class A	1,554,605	43,265
	WSFS Financial Corp. Eastern	1,586,821	71,946		Navient Corp. PJT Partners Inc.	2,620,547	43,108
	Bankshares Inc.	4,097,169	70,676		Class A	566,104	41,716
	PacWest Bancorp	3,035,471	69,664		BancFirst Corp.	465,801	41,074
*	Genworth				National Bank		
	Financial Inc. Class A	12,789,622	67,657		Holdings Corp.		40.750
	Atlantic Union Bankshares Corp.	1 025 125	67640		Class A	968,826	40,759
	BankUnited Inc.	1,925,125 1,990,981	67,649 67,634	*	Cohen & Steers Inc.	627,479	40,510
	CNO Financial	1,330,361	07,034		BRP Group Inc. Class A	1,582,910	39,794
	Group Inc.	2,947,649	67,354	*	Cannae Holdings Inc.	1,909,956	39,441
	Simmons First	_,,,,,,,,,,	-,		Horace Mann	1,000,000	00,441
	National Corp.				Educators Corp.	1,053,821	39,381
	Class A	3,108,043	67,072		Provident Financial	, , -	,
	Jackson Financial Inc.				Services Inc.	1,842,675	39,360
	Class A	1,925,507	66,988		Apollo Commercial		
	International Bancshares Corp.	1,440,368	65,911		Real Estate	0.000.000	20.077
*	Mr Cooper Group Inc.	1,636,308	65,665		Finance Inc.	3,622,392	38,977
	Walker & Dunlop Inc.	808,071	63,417		Westamerica Bancorp	658,727	38,871
	Moelis & Co. Class A	1,648,212	63,242		Hope Bancorp Inc. Eagle Bancorp Inc.	2,924,709	37,466 36,248
	First Merchants Corp.	1,534,740	63,093		Two Harbors	822,499	30,248
	BOK Financial Corp.	606,447	62,943		Investment Corp.	2,226,836	35,117
*	Enstar Group Ltd.	267,791	61,870		Hilltop Holdings Inc.	1,165,044	34,963
	Columbia Banking	201,101	01,070		StepStone Group Inc.	1,100,011	01,000
	System Inc.	2,026,431	61,056		Class A	1,358,133	34,198
	First Bancorp	4,756,625	60,504		Virtus Investment		
	Piper Sandler Cos.	436,558	56,835		Partners Inc.	177,026	33,890
	Washington				City Holding Co.	363,598	33,847
	Federal Inc.	1,682,762	56,457		OFG Bancorp	1,225,542	33,776
	First Financial Bancorp	2,321,486	56,250		Berkshire Hills		
*	Axos Financial Inc.	1,468,701	56,134		Bancorp Inc.	1,102,129	32,954
	Banner Corp.	880,921	55,674		PennyMac Financial	E00 222	00.005
	Arbor Realty Trust Inc.	4,198,386	55,377	1	Services Inc.	580,628	32,898
	Towne Bank	1,780,178	54,901		Chimera Investment Corp.	5,972,161	32,847

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
	S&T Bancorp Inc.	954,732	32,633	*	Open Lending Corp.		
*	PRA Group Inc.	954,096	32,229		Class A	2,440,735	16,475
	First Commonwealth	001,000	02,220		iStar Inc.	2,122,405	16,194
	Financial Corp.	2,285,747	31,932		Kearny Financial Corp.	1,567,028	15,905
	BGC Partners Inc.	_,,	/	*	Triumph Financial Inc.	299,646	14,644
	Class A	8,371,141	31,559		BrightSpire	200,010	,
	Brookline Bancorp Inc.		30,848		Capital Inc. Class A	2,325,923	14,490
	Safety Insurance	_,,		*	Palomar Holdings Inc.	308,852	13,948
	Group Inc.	360,808	30,402		National Western Life	,	
	Employers	700.050	20.000		Group Inc. Class A	48,642	13,668
*	Holdings Inc.	700,853	30,228		SiriusPoint Ltd.	2,298,701	13,562
	Blucora Inc.	1,172,082	29,923		Central Pacific	000 540	40 547
	Ladder Capital Corp.	0.004.007	00.405		Financial Corp.	666,518	13,517
	Class A	2,934,807	29,465	*,1	Silvergate Capital	775 700	40.400
	Capitol Federal Financial Inc.	2 265 770	20 114	* 4	Corp. Class A	775,730	13,498
1		3,365,770	29,114	*,1	Riot Blockchain Inc.	3,879,873	13,153
	Compass Diversified	1 501 075	20.020	_	AssetMark Financial	F70 040	40.400
	Holdings	1,581,375	28,828		Holdings Inc.	570,816	13,129
	PennyMac Mortgage Investment Trust	2 201 250	20 200	*	Clearwater Analytics	000 000	40.070
	Nelnet Inc. Class A	2,291,259	28,389		Holdings Inc. Class A	686,802	12,878
*	Encore Capital	306,591	27,823		Live Oak	40E 011	10.005
	Group Inc.	572,425	27,442	1	Bancshares Inc.	425,011	12,835
1	Franklin BSP Realty	572,425	27,442	'	Invesco Mortgage	911,094	11,598
•	Trust Inc.	2,125,189	27,415		Capital Inc. Broadmark Realty	911,094	11,596
	MFA Financial Inc.	2,623,109	25,838		Capital Inc.	3,254,035	11,584
	Mercury General	2,023,100	23,030		P10 Inc. Class A	1,054,206	11,248
	Corp.	713,471	24,401		TPG RE Finance	1,054,200	11,240
	ProAssurance Corp.	1,390,537	24,293		Trust Inc.	1,595,978	10,837
*	LendingClub Corp.	2,707,827	23,829	*,1	Marathon Digital	1,595,976	10,037
*,1	Upstart Holdings Inc.	1,793,346	23,708	,.	Holdings Inc.	2,860,177	9,782
, .	Tompkins Financial	1,733,340	23,700		Victory Capital	2,000,177	0,702
	Corp.	298,607	23,166		Holdings Inc. Class A	308,900	8,288
	Heartland Financial	200,007	20,100		GCM Grosvenor Inc.	,	0,200
	USA Inc.	464,815	21,670		Class A	1,088,435	8,283
*	Columbia	,	,	*	Oscar Health Inc.		•
	Financial Inc.	988,213	21,365		Class A	3,240,702	7,972
	Argo Group			1	UWM Holdings Corp.		
	International				Class A	2,146,596	7,105
	Holdings Ltd.	813,019	21,017	*	World Acceptance		
	TFS Financial Corp.	1,444,972	20,822		Corp.	104,776	6,909
	Enact Holdings Inc.	839,142	20,240	*,1	Hagerty Inc. Class A	531,626	4,471
*	Ambac Financial			*	LendingTree Inc.	140,006	2,986
	Group Inc.	1,158,737	20,208		IoanDepot Inc. Class A	1,300,426	2,146
	Redwood Trust Inc.	2,920,591	19,743	*,1	Bakkt Holdings Inc.	1,547,417	1,841
1	ARMOUR Residential				Associated Capital		
	REIT Inc.	3,405,641	19,174		Group Inc. Class A	42,372	1,779
	WisdomTree Inc.	3,209,014	17,489		Goldman Sachs		
	Northfield				Group Inc.	1	_
	Bancorp Inc.	1,107,913	17,427			_	16,757,879
	KKR Real Estate			Healt	th Care (11.9%)		10,737,073
	Finance Trust Inc.	1,246,215	17,397	rican	Bio-Techne Corp.	4,044,486	335,207
*,1	Lemonade Inc.	1,247,655	17,068	*	United Therapeutics	r,0 <del>-1,4</del> 00	000,207
	United Fire Group Inc.	616,862	16,877		Corp.	1,174,346	326,574
*	Goosehead			*	Neurocrine	1,1,7,0-0	320,074
	Insurance Inc.				Biosciences Inc.	2,477,017	295,855
	Class A	490,428	16,841			, , ,	,

		O.	Market Value•			O.	Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Sarepta	0.4.40.000	070 400		Premier Inc. Class A	3,060,098	107,042
*	Therapeutics Inc. Jazz Pharmaceuticals	2,148,696	278,428	*	Cytokinetics Inc. Arrowhead	2,316,378	106,136
	plc	1,541,322	245,548		Pharmaceuticals Inc.	2,590,911	105,087
*	Repligen Corp.	1,430,671	242,227	*	Merit Medical	===	100 500
Ţ	Exact Sciences Corp.	4,579,614	226,737		Systems Inc.	1,466,559	103,568
Ţ	Penumbra Inc.	929,605	206,800	-	Integra LifeSciences	1 000 100	100 500
_	Novocure Ltd.	2,704,393	198,367	*	Holdings Corp.	1,829,198 1,303,970	102,563
	Halozyme Therapeutics Inc.	3,483,813	100 220	*	Haemonetics Corp. Syneos Health Inc.		102,557 97,255
	Chemed Corp.	383,102	198,229 195,547	*	Madrigal	2,651,449	97,255
*	Acadia Healthcare Co.	303,102	195,547		Pharmaceuticals Inc.	330,550	95,942
	Inc.	2,344,112	192,967	*	ICU Medical Inc.	586,997	92,440
*	Shockwave	2,0, 2	.02,007	*	Lantheus	000,007	02,
	Medical Inc.	931,311	191,487		Holdings Inc.	1,773,550	90,380
*	Masimo Corp.	1,286,726	190,371	*	Teladoc Health Inc.	3,755,094	88,808
*	Inspire Medical			*	Amicus		
	Systems Inc.	744,433	187,508		Therapeutics Inc.	7,238,730	88,385
	Organon & Co.	6,553,911	183,051	*	Vaxcyte Inc.	1,831,607	87,826
	Bruker Corp.	2,652,760	181,316	*	agilon health Inc.	5,307,462	85,662
	DENTSPLY			*	10X Genomics Inc.		
	SIRONA Inc.	5,539,129	176,366		Class A	2,340,004	85,270
	Encompass Health	0.574.077	450.770	*,1	Doximity Inc. Class A	2,486,359	83,442
*	Corp.	2,571,077	153,776	*	Neogen Corp.	5,289,686	80,562
	Elanco Animal Health Inc.	12,222,331	149,357	*	Prestige Consumer	1 070 005	70.000
*	Globus Medical Inc.	12,222,331	149,557	*	Healthcare Inc. Axonics Inc.	1,276,085	79,883 79,808
	Class A	1,994,356	148,121	*		1,276,310	79,808
*	Charles River	.,00.,000	0, .2 .		Ultragenyx Pharmaceutical Inc.	1,715,999	79,502
	Laboratories			*	1Life Healthcare Inc.	4,738,922	79,187
	International Inc.	655,436	142,820	*	Tandem Diabetes	1,700,022	70,107
*	Envista Holdings				Care Inc.	1,656,703	74,469
	Corp.	4,201,074	141,450	*	Oak Street Health Inc.	3,442,666	74,052
*	Karuna			*	Denali		
	Therapeutics Inc.	708,269	139,175		Therapeutics Inc.	2,624,636	72,991
_	Tenet Healthcare	2.705.040	105 000	*	Intellia		
*	Corp. HealthEquity Inc.	2,785,849 2,178,049	135,922 134,255		Therapeutics Inc.	2,086,354	72,793
*	Exelixis Inc.	8,311,011	134,255	*	PTC Therapeutics Inc.	1,852,066	70,693
*	lonis	0,311,011	133,309	*	Inari Medical Inc.	1,105,944	70,294
	Pharmaceuticals Inc.	3,477,112	131,331	*	Amedisys Inc.	837,212	69,941
	Ensign Group Inc.	1,358,078	128,488	*	Insmed Inc.	3,491,913	69,768
*	Medpace	.,,	,	* 1	CONMED Corp.	785,459	69,623
	Holdings Inc.	600,926	127,643	*,1	Axsome	00E 1EE	60.042
*	Apellis			*	Therapeutics Inc. iRhythm	895,155	69,043
	Pharmaceuticals Inc.	2,421,786	125,231		Technologies Inc.	737,010	69,036
*	LHC Group Inc.	759,590	122,818	*	Guardant Health Inc.	2,507,397	68,201
*	Option Care			*	Blueprint Medicines	2,007,007	00,201
	Health Inc.	3,983,885	119,875		Corp.	1,541,598	67,537
	Perrigo Co. plc	3,469,206	118,265	*	Beam	, - ,	, , , , ,
*	Intra-Cellular	0.100.107	110 001		Therapeutics Inc.	1,724,882	67,460
*	Therapies Inc.	2,196,167	116,221	*	Evolent Health Inc.		
*	Azenta Inc.	1,932,977	112,538		Class A	2,346,675	65,895
	Alkermes plc	4,233,591	110,624	*	Vir Biotechnology Inc.	2,572,345	65,106
	Universal Health Services Inc. Class B	785,159	110,621		Select Medical	0.04= :	0
*	QuidelOrtho Corp.	1,276,344	109,344	*	Holdings Corp.	2,617,437	64,991
*	Natera Inc.	2,668,905	107,210	*	Enovis Corp.	1,185,956	63,472
		_,000,000	.07,210				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	Patterson Cos. Inc.	2,246,963	62,982	*	Owens & Minor Inc.	1,866,063	36,444
*	Mirati	2,2 10,000	02,002	*	FibroGen Inc.	2,178,792	34,904
	Therapeutics Inc.	1,335,398	60,507	*	Nevro Corp.	867,236	34,343
*	STAAR Surgical Co.	1,242,104	60,292	*	Privia Health	,	- 1,- 1-
*	Progyny Inc.	1,914,674	59,642		Group Inc.	1,471,567	33,419
*	Integer Holdings Corp.	853,668	58,442	*	Twist Bioscience		
*	Omnicell Inc.	1,150,521	58,009		Corp.	1,379,735	32,852
*	NuVasive Inc.	1,343,270	55,396	*	Avanos Medical Inc.	1,198,135	32,422
*	Signify Health Inc.			*	CorVel Corp.	222,425	32,325
	Class A	1,839,360	52,716	*	Outset Medical Inc.	1,244,714	32,139
*	Glaukos Corp.	1,167,638	51,002	*	SpringWorks	4 005 700	04.004
*	Cerevel Therapeutics	4 044 400	E0 044		Therapeutics Inc.	1,205,730	31,361
*	Holdings Inc.	1,611,106	50,814		Apollo Medical Holdings Inc.	1,023,136	30,275
*,1	AtriCure Inc.	1,138,382	50,521	*	Pediatrix Medical	1,023,130	30,275
, '	Ginkgo Bioworks Holdings Inc. Class A	29 670 722	50,144		Group Inc.	2,033,294	30,215
*	ACADIA	25,070,722	30,144	*	R1 RCM Inc.	2,682,351	29,372
	Pharmaceuticals Inc.	3,129,231	49,817	*	Myriad Genetics Inc.	1,983,449	28,780
*	Sage Therapeutics Inc.		49,693	*	NeoGenomics Inc.	3,091,705	28,567
*	Certara Inc.	3,085,657	49,587	*,1	Warby Parker Inc.	,	,,,,,
*	Silk Road Medical Inc.	932,894	49,303		Class A	2,101,339	28,347
*	REVOLUTION	,	•	*	Ligand		
	Medicines Inc.	2,059,069	49,047		Pharmaceuticals Inc.	413,531	27,624
*	Corcept			*	BioCryst		
	Therapeutics Inc.	2,357,680	47,885		Pharmaceuticals Inc.	2,401,546	27,570
*	DaVita Inc.	638,737	47,695	*	Reata		
*	Amylyx	4 070 470	47000		Pharmaceuticals Inc. Class A	694,946	26,401
	Pharmaceuticals Inc.	1,279,176	47,266	*	NextGen	034,340	20,401
	Supernus Pharmaceuticals Inc.	1 222 260	47201		Healthcare Inc.	1,393,534	26,171
*	Relay	1,323,268	47,201	*	Alignment	.,000,00	20,
	Therapeutics Inc.	2,959,630	44,217		Healthcare Inc.	2,171,207	25,533
*	Surgery Partners Inc.	1,579,475	44,004	*	Adaptive		
*	Veracyte Inc.	1,848,805	43,872		Biotechnologies		
*	Pacira	.,,	,		Corp.	3,316,438	25,338
	BioSciences Inc.	1,123,118	43,364	*	Kymera	000 040	0.4.704
*	Pacific Biosciences of			*	Therapeutics Inc.	989,642	24,701
	California Inc.	5,243,452	42,891		lovance Biotherapeutics Inc.	3,863,603	24,688
*	Harmony Biosciences			*	Immunovant Inc.	1,331,570	23,635
	Holdings Inc.	764,209	42,108		Healthcare Services	1,001,070	20,000
-	Ironwood				Group Inc.	1,909,053	22,909
	Pharmaceuticals Inc. Class A	3,359,272	41,621	*	REGENXBIO Inc.	1,003,979	22,770
*	Maravai LifeSciences	3,339,272	41,021	*,1	Novavax Inc.	2,203,252	22,649
	Holdings Inc. Class A	2.880.934	41,226	*	Zentalis		
*	Xencor Inc.	1,543,975	40,205		Pharmaceuticals Inc.	1,102,864	22,212
*	Arvinas Inc.	1,165,787	39,882	*	Fate Therapeutics Inc.	2,128,089	21,472
*	TG Therapeutics Inc.	3,370,355	39,871	*	Innoviva Inc.	1,618,204	21,441
*	Agios	.,.	, .	*	Treace Medical		
	Pharmaceuticals Inc.	1,415,739	39,754		Concepts Inc.	929,491	21,369
*,1	PROCEPT			*	Cytek Biosciences Inc.		21,286
	BioRobotics Corp.	921,913	38,296	*	Sotera Health Co.	2,544,157	21,193
	Embecta Corp.	1,490,236	37,688	*	Varex Imaging Corp.	1,033,244	20,975
*	Meridian	1 100 040	27500	*	Phreesia Inc.	642,996	20,807
*	Bioscience Inc.	1,129,248	37,502	*	Bridgebio Pharma Inc.	2,696,078	20,544
*	IVERIC bio Inc. AdaptHealth Corp.	1,728,252	37,002		National HealthCare Corp.	336,083	19,997
	Class A	1,909,457	36,700		corp.	550,005	13,33/
	5,000 / 1	.,000,407	55,766				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Verve Therapeutics Inc.	1,031,700	19,963	*,1	Clover Health Investments Corp.		
*	Recursion Pharmaceuticals Inc.		.0,000		Class A Phibro Animal Health	8,895,677	8,269
*	Class A Hims & Hers	2,575,097	19,854	*	Corp. Class A Amneal	527,056	7,068
	Health Inc.	3,082,059	19,756		Pharmaceuticals Inc.	3,512,890	6,991
*,1	EQRx Inc.	7,551,735	18,577	*,1	Erasca Inc.	1,576,383	6,794
*,1	Theravance		,	*	Accolade Inc.	834,207	6,499
	Biopharma Inc.	1,475,474	16,555	*	Cano Health Inc.	4,411,726	6.044
*	Enhabit Inc.	1,214,518	15,983	*	NGM	, , ,	-,-
*	American Well Corp.				Biopharmaceuticals		
	Class A	5,623,422	15,914		Inc.	1,158,434	5,815
*	CareDx Inc.	1,379,403	15,739	*	Sangamo		
*	Editas Medicine Inc.				Therapeutics Inc.	1,794,712	5,635
	Class A	1,771,722	15,715	*	Atea	005 505	
*	HealthStream Inc.	630,188	15,654	* 4	Pharmaceuticals Inc.	965,585	4,644
*,1 *	23andMe Holding Co.		15,162	*,1 *	Prime Medicine Inc.	249,149	4,629
*	Alector Inc.	1,598,242	14,752		PMV Pharmaceuticals Inc.	E20 226	4 604
	AnaptysBio Inc.	475,558	14,738	*,1	Gossamer Bio Inc.	529,236	4,604
*	Health Catalyst Inc.	1,340,241	14,247	*	OmniAb Inc.	2,083,853	4,522
*,1	Agiliti Inc.	858,942	14,009	*,1		1,078,510	3,883
*	Rocket	700 550	40.000	, '	Innovage Holding Corp.	527,774	3.789
	Pharmaceuticals Inc.		13,866	*	Seer Inc. Class A	641,370	3,720
*	OPKO Health Inc. Emergent	10,951,164	13,689	*	Design	041,370	3,720
	BioSolutions Inc.	1,156,830	13,662		Therapeutics Inc.	360,832	3,702
*	Day One	.,,	,	*	Pulmonx Corp.	433,628	3,656
	Biopharmaceuticals			*	Nuvation Bio Inc.	1,828,558	3,511
	Inc.	615,933	13,255	*	ALX Oncology		
*	Arcus				Holdings Inc.	236,725	2,668
*	Biosciences Inc.	606,305	12,538		Stoke Therapeutics Inc.	270 220	2,577
	Brookdale Senior Living Inc.	4,572,898	12,484	*	Allovir Inc.	279,228 479,692	2,377
*	Lyell	4,572,696	12,404	*,1	P3 Health	473,032	2,401
	Immunopharma Inc.	3,524,083	12,229	,.	Partners Inc.	589,336	1,084
*	Kiniksa	0,021,000	12,220	*,1	SmileDirectClub Inc.	000,000	1,001
	Pharmaceuticals Ltd.				Class A	1,412,359	497
	Class A	800,686	11,994	*	Instil Bio Inc.	752,337	474
*	Allogene			*,1,2	Zogenix Inc. CVR	215,490	431
	Therapeutics Inc.	1,857,808	11,686	*,1	Synergy		
*,1	Invitae Corp.	6,258,718	11,641		Pharmaceuticals LLC	2,001,166	_
*	Inogen Inc.	561,133	11,060	*,2	OmniAb Inc. (Earnout		
*	Nuvalent Inc. Class A	361,234	10,758		Shares)	313,380_	
*,1	ImmunityBio Inc.	2,062,678	10,458				13,398,251
*	Multiplan Corp.	9,057,560	10,416	Indu	strials (20.6%)		
*	Nektar Therapeutics	4 001 007	10.000		IDEX Corp.	1,943,285	443,710
*,1	Class A Sana	4,601,037	10,398	*	Fair Isaac Corp.	643,559	385,222
,.	Biotechnology Inc.	2,453,878	9,693		Howmet		
*	LifeStance Health	2,100,070	0,000		Aerospace Inc.	9,593,813	378,092
	Group Inc.	1,937,584	9,572		Booz Allen Hamilton		
*	Cullinan Oncology Inc.		8,709		Holding Corp. Class A	3 106 034	356 003
*	GoodRx Holdings Inc.				RPM International Inc.	3,406,934	356,093
	Class A	1,806,013	8,416		Nordson Corp.	3,326,388	324,157
*,1	Butterfly Network Inc.	3,365,510	8,279			1,326,703	315,384
					Carlisle Cos. Inc. Toro Co.	1,332,565	314,019
					1010 CO.	2,684,932	303,934

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
	AECOM	3,572,508	303,413		Landstar System Inc.	925,739	150,803
	Graco Inc.	4,342,368	292,068		Woodward Inc.	1,539,894	148,769
*	Axon Enterprise Inc.	1,742,016	289,053		Oshkosh Corp.	1,684,949	148,596
*	Builders	1,7.12,010	200,000		MKS Instruments Inc.	1,713,613	145,194
	FirstSource Inc.	3,792,046	246,028	*	Axalta Coating	1,710,010	110,101
*	WillScot Mobile Mini	-,,	,		Systems Ltd.	5,684,306	144,779
	Holdings Corp.	5,382,222	243,115	*	Saia Inc.	681,819	142,964
	Allegion plc	2,263,456	238,251	*	Mohawk	001,010	142,004
	Huntington Ingalls	_,,			Industries Inc.	1,391,501	142,239
	Industries Inc.	1,028,209	237,187		Littelfuse Inc.	637,838	140,452
	AGCO Corp.	1,633,808	226,593		MSA Safety Inc.	959,498	138,350
	Genpact Ltd.	4,721,969	218,722	*	MasTec Inc.	1,612,746	137,616
	Lincoln Electric	1,721,000	210,722		Acuity Brands Inc.	828,570	137,010
	Holdings Inc.	1,487,662	214,952	*	ExIService	020,070	137,213
	Watsco Inc.	857,059	213,751		Holdings Inc.	809,385	137,134
*	Paylocity Holding	007,000	210,701		Western Union Co.	9,950,307	137,134
	Corp.	1,075,868	208,998				
	Knight-Swift	1,070,000	200,000		BWX Technologies Inc.		136,512
	Transportation			*	Brunswick Corp.	1,868,213	134,661
	Holdings Inc. Class A	3.933.602	206,160		FTI Consulting Inc.	842,561	133,799
	Owens Corning	2,407,943	205,398	*,1	GXO Logistics Inc.	3,056,956	130,501
	Regal Rexnord Corp.	1,704,529	204,509		Exponent Inc.	1,304,792	129,292
	Cognex Corp.	4,232,950	199,414	*	TopBuild Corp.	823,817	128,919
	Tetra Tech Inc.	1,365,148	198,206	*	Fluor Corp.	3,661,096	126,894
	Lennox	1,303,140	130,200	*	Chart Industries Inc.	1,096,579	126,359
	International Inc.	821,843	196,609		Eagle Materials Inc.	949,342	126,120
	Robert Half	021,043	130,003		Applied Industrial		
	International Inc.	2,655,813	196,079		Technologies Inc.	993,977	125,271
	Berry Global	2,033,013	130,073		Crane Holdings Co.	1,229,720	123,525
	Group Inc.	3,197,560	193,229	*	Trex Co. Inc.	2,827,530	119,689
	Pentair plc	4,238,504	190,648	*	Atkore Inc.	1,023,282	116,061
	A O Smith Corp.	3,268,974	187,116		Maximus Inc.	1,565,932	114,830
	· ·			*	AMN Healthcare		
*	Sealed Air Corp.	3,727,183	185,912		Services Inc.	1,116,556	114,804
	Middleby Corp.	1,388,364	185,902	*	Euronet		
	Donaldson Co. Inc.	3,155,403	185,759		Worldwide Inc.	1,213,970	114,574
	AptarGroup Inc.	1,682,118	184,999		Silgan Holdings Inc.	2,127,155	110,272
-	WEX Inc.	1,123,178	183,808	*	Aerojet Rocketdyne		
	EMCOR Group Inc.	1,227,884	181,862		Holdings Inc.	1,971,298	110,255
	Valmont	E 40 700	404 770		ManpowerGroup Inc.	1,302,657	108,394
	Industries Inc.	549,708	181,772		Comfort Systems		
	Graphic Packaging	7040 400	470.007		USA Inc.	921,459	106,042
	Holding Co.	7,913,122	176,067		Insperity Inc.	928,544	105,483
	ITT Inc.	2,130,853	172,812		Air Lease Corp.		
	nVent Electric plc	4,292,363	165,127		Class A	2,714,647	104,297
	Jack Henry &				Triton International		
	Associates Inc.	939,852	165,000		Ltd.	1,515,537	104,239
	Curtiss-Wright Corp.	987,056	164,828		Flowserve Corp.	3,367,523	103,316
*	WESCO				Watts Water		
	International Inc.	1,310,072	164,021		Technologies Inc.		
	Hubbell Inc. Class B	691,904	162,376		Class A	703,060	102,808
	Sensata Technologies				Ryder System Inc.	1,230,116	102,801
	Holding plc	3,941,199	159,146		Altra Industrial Motion		,
	MDU Resources				Corp.	1,679,240	100,335
	Group Inc.	5,239,577	158,969	*	ATI Inc.	3,334,601	99,571
	Advanced Drainage			*	ASGN Inc.	1,221,397	99,519
	Systems Inc.	1,921,409	157,498	*	Kirby Corp.	1,543,470	99,322
	Sonoco Products Co.	2,512,447	152,531		· /	, = . = , 0	,

		Shares	Market Value•			Charas	Market Value•
		Shares	(\$000)			Shares	(\$000)
	Allison Transmission		00.400	*,1	TriNet Group Inc.	962,101	65,230
	Holdings Inc.	2,383,011	99,133		Moog Inc. Class A	739,769	64,922
	Louisiana-Pacific Corp.		98,420	*	Hub Group Inc.		
	HB Fuller Co.	1,373,711	98,385		Class A	799,285	63,535
	Simpson			*	Mercury Systems Inc.	1,419,297	63,499
	Manufacturing Co.	4 007004	07045		Otter Tail Corp.	1,072,643	62,975
	Inc.	1,097,621	97,315	*	ACI Worldwide Inc.	2,720,575	62,573
	GATX Corp.	907,057	96,456		McGrath RentCorp	628,375	62,046
	Fortune Brands	1 000 010	04.010		Trinity Industries Inc.	2,097,461	62,022
	Innovations Inc.	1,662,016	94,918	*	Resideo		
	MSC Industrial Direct Co. Inc. Class A	1,156,033	94,448		Technologies Inc.	3,757,889	61,817
	Maxar	1,150,055	34,440		Encore Wire Corp.	448,924	61,754
	Technologies Inc.	1,825,113	94,431		Brink's Co.	1,136,881	61,062
*	XPO Inc.	2,817,789	93,804		Matson Inc.	973,406	60,848
*	API Group Corp.	4,821,422	90,691	*	Alight Inc. Class A	7,178,654	60,014
*	Summit Materials Inc.	4,021,422	30,031		Werner		
	Class A	3,051,402	86,629		Enterprises Inc.	1,465,857	59,015
	Herc Holdings Inc.	640,831	84,314	*	Itron Inc.	1,164,056	58,959
	AAON Inc.	1,096,583	82,595		ESCO		
	Badger Meter Inc.	754,169	82,227		Technologies Inc.	666,128	58,313
*	Generac Holdings Inc.	816,675	82,207		EnPro Industries Inc.	536,016	58,260
	Franklin Electric Co.	010,075	02,207	*	Flywire Corp.	2,286,507	55,951
	Inc.	1,014,489	80,905	*	AZEK Co. Inc. Class A	2,744,091	55,760
	Armstrong World	1,014,400	00,000	*	GMS Inc.	1,092,782	54,421
	Industries Inc.	1,176,596	80,703		EVERTEC Inc.	1,680,125	54,402
	ADT Inc.	8,852,353	80,291	*	Verra Mobility Corp.	0.004.050	50.440
	Spirit AeroSystems	0,00=,000			Class A	3,861,859	53,410
	Holdings Inc. Class A	2,711,959	80,274	,	Brady Corp. Class A	1,130,888	53,265
*	Bloom Energy Corp.				AeroVironment Inc.	611,651	52,394
	Class A	4,159,524	79,530	*	RXO Inc.	2,966,205	51,019
	Belden Inc.	1,102,909	79,299		Barnes Group Inc.	1,237,844	50,566
	Albany International				Installed Building	F00 000	E0 470
	Corp. Class A	801,383	79,008		Products Inc.	589,630	50,472
	Vontier Corp.	4,070,862	78,690	* 1	Kennametal Inc.	2,076,181	49,953
	EnerSys	1,052,060	77,684	*,1	Affirm Holdings Inc.	F 000 000	40.704
	Zurn Elkay Water			*	Class A	5,038,668	48,724
	Solutions Corp.	3,664,904	77,513		Air Transport Services Group Inc.	1,874,054	48,688
*	Marqeta Inc. Class A	12,632,367	77,184		Bread Financial	1,074,034	40,000
	ABM Industries Inc.	1,704,497	75,714		Holdings Inc.	1,284,511	48,375
	UniFirst Corp.	388,496	74,976		Griffon Corp.	1,323,303	47,361
	John Bean			*	Masonite International	.,020,000	.,,00.
	Technologies Corp.	820,835	74,967		Corp.	573,930	46,264
*	Atlas Air Worldwide	700.000	70.075		Lindsay Corp.	283,557	46,177
_	Holdings Inc.	730,898	73,675		Helios	,	,
	SPX Technologies Inc.	1,106,045	72,612		Technologies Inc.	838,852	45,667
*	Shift4 Payments Inc.	4 007500	70 570		Mueller Water	,	•
	Class A	1,297,520	72,570		Products Inc. Class A	4,016,909	43,222
	Forward Air Corp.	685,198	71,870	*	Evo Payments Inc.		
	Terex Corp.	1,652,253	70,584		Class A	1,244,450	42,112
	Korn Ferry	1,375,381	69,622		Greif Inc. Class A	627,555	42,084
	Esab Corp.	1,470,536	68,998		ArcBest Corp.	597,754	41,867
	Hillenbrand Inc.	1,597,283	68,156		Granite		
	Dycom Industries Inc.	723,541	67,723		Construction Inc.	1,126,788	39,516
*	Beacon Roofing	1.057400	66.000	*	AAR Corp.	866,692	38,914
*	Supply Inc.	1,257,482	66,382		Enerpac Tool Group		
	O-I Glass Inc.	3,997,151	66,233		Corp. Class A	1,465,315	37,292

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	ETALA: I.I			*,1	D 0 1	0.10.00	(Ф000)
*	FTAI Aviation Ltd. Huron Consulting	2,177,872	37,285	, '	PureCycle Technologies Inc.	2,738,423	18,512
	Group Inc.	513,556	37,284	*,1	Virgin Galactic	2,700,420	10,012
	Federal Signal Corp.	781,659	36,324		Holdings Inc.	5,306,237	18,466
	H&E Equipment	,,,,,,	, -	*	Gibraltar		
	Services Inc.	795,304	36,107		Industries Inc.	399,044	18,308
*	Enovix Corp.	2,833,512	35,249	*	Green Dot Corp.	4 454 045	10.011
*	Payoneer Global Inc.	6,315,387	34,545	*	Class A Conduent Inc.	1,151,345	18,214
*	Core & Main Inc.	4 775 504	04.000	*	Proto Labs Inc.	4,451,477	18,028
	Class A	1,775,561	34,286	*		698,801	17,840
*	CoreCivic Inc. Kratos Defense &	2,962,622	34,248	*	First Advantage Corp. Thermon Group	1,370,215	17,813
	Security				Holdings Inc.	863,097	17,331
	Solutions Inc.	3,245,608	33,495	*	ZipRecruiter Inc.	000,007	.,,00
	Standex International	0,= 10,000			Class A	1,028,678	16,891
	Corp.	308,859	31,630	*	Leonardo DRS Inc.	1,314,898	16,804
*	Vicor Corp.	582,655	31,318	*	Vivint Smart		
*	OSI Systems Inc.	390,906	31,085		Home Inc.	1,374,453	16,356
*	AvidXchange			*	Janus International		
	Holdings Inc.	3,072,046	30,536		Group Inc.	1,700,367	16,187
	Primoris Services	4 000 400	00.005	*	Kaman Corp.	722,009	16,101
	Corp.	1,368,489	30,025		TrueBlue Inc.	800,934	15,682
	TriMas Corp.	1,081,234	29,993		Pitney Bowes Inc.	4,035,093	15,333
*	Tennant Co. Gates Industrial Corp.	479,230	29,506		Gorman-Rupp Co.	571,647	14,646
	plc	2,547,335	29,065		Kelly Services Inc. Class A	846,795	14,311
	Kforce Inc.	508,027	27.855	*	FARO	040,700	14,011
	Greenbrier Cos. Inc.	802,507	26,908		Technologies Inc.	483,974	14,234
	Wabash National	002,007	20,000	*	TaskUS Inc. Class A	709,672	11,993
	Corp.	1,173,610	26,524	*,1	Aurora Innovation Inc.	9,547,827	11,553
	Apogee			*	Cimpress plc	405,508	11,196
	Enterprises Inc.	572,215	25,441	*	Forrester		
*	Hillman Solutions				Research Inc.	293,827	10,507
	Corp.	3,507,897	25,292	*	American Woodmark		
	Rocket Lab USA Inc.	6,707,288	25,286		Corp.	214,174	10,465
	Remitly Global Inc.	2,193,936	25,121		CryoPort Inc.	600,129	10,412
	AZZ Inc.	608,600	24,466		Pactiv Evergreen Inc.	916,219	10,408
*	Astec Industries Inc. Hayward Holdings Inc.	585,249	23,796		REV Group Inc. National Presto	764,421	9,647
	Schneider	2,449,721	23,027		Industries Inc.	136,298	9,331
	National Inc. Class B	979,333	22,916		Greif Inc. Class B	112,640	8,812
	TTEC Holdings Inc.	486,766	21,481	*,1	Desktop Metal Inc.	2,00	0,012
*,1	Joby Aviation Inc.	6,408,602	21,469		Class A	6,165,901	8,386
	International	.,,	,	*,1	Hyliion Holdings Corp.	3,473,664	8,128
	Seaways Inc.	569,014	21,065	*	Triumph Group Inc.	753,682	7,929
*	Mirion			*	Sterling Check Corp.	502,785	7,778
	Technologies Inc.	3,093,865	20,450	*	BrightView		
	Quanex Building	050.040	00.044		Holdings Inc.	1,078,502	7,431
*	Products Corp.	853,642	20,214	*	Microvast	0.000.010	0.070
	JELD-WEN Holding Inc.	2,064,517	19,923	*	Holdings Inc.	3,968,316	6,072
*	Legalzoom.com Inc.	2,481,789	19,923		TuSimple Holdings Inc. Class A	3 595 268	5,896
	Deluxe Corp.	1,111,448	18,872		Kronos Worldwide Inc.	595,056	5,594
	Heartland Express Inc.		18,727		Hyster-Yale Materials	000,000	3,004
*,1	Nikola Corp.	8,637,823	18,658		Handling Inc.	220,267	5,575
*	Proterra Inc.	4,939,866	18,623	*	Advantage	,	
		. ,	,		Solutions Inc.	2,063,541	4,292
				*	CS Disco Inc.	603,253	3,813

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Ranpak Holdings				Ryman Hospitality		
	Corp. Class A	569,348	3,285		Properties Inc.	1,350,295	110,427
*,1	Paymentus	000,0.0	0,200		Terreno Realty Corp.	1,861,997	105,892
	Holdings Inc. Class A	400,520	3,208		Cousins	.,00.,00,	.00,002
*,1	Global Business Travel				Properties Inc.	3,901,983	98,681
	Group I	349,518	2,359		Independence Realty		
*,1	MSP Recovery Inc.	1,131,442	1,810		Trust Inc.	5,773,695	97,345
		_	23,158,192		Phillips Edison & Co.		
Real	Estate (8.1%)		20,100,102		Inc.	3,017,239	96,069
	Kimco Realty Corp.	15,935,357	337,511		Vornado Realty Trust	4,448,147	92,566
	Gaming & Leisure	.0,000,007	00.,011		PotlatchDeltic Corp.	2,081,344	91,558
	Properties Inc.	6,303,420	328,345		Essential Properties		
	Equity LifeStyle	-,,	, .		Realty Trust Inc.	3,668,553	86,101
	Properties Inc.	4,315,797	278,800		Physicians Realty Trust	5,881,581	85,106
	Rexford Industrial				Apple Hospitality REIT Inc.	E 204 641	00 707
	Realty Inc.	4,728,110	258,344		National Storage	5,304,641	83,707
	CubeSmart	5,786,362	232,901		Affiliates Trust	2,224,175	80,337
	American Homes 4				Highwoods	2,224,173	00,557
	Rent Class A	7,273,413	219,221		Properties Inc.	2,710,506	75,840
	Life Storage Inc.	2,190,076	215,722		Corporate Office	_,,	,
	Lamar Advertising Co.	0.040.450	040.054		Properties Trust	2,896,721	75,141
	Class A	2,248,450	212,254		Sabra Health Care		
	Federal Realty	2 002 400	011 417		REIT Inc.	5,951,550	73,978
	Investment Trust National Retail	2,092,409	211,417		Innovative Industrial		
	Properties Inc.	4,605,228	210,735		Properties Inc.	720,716	73,045
	STORE Capital Corp.	6,555,362	210,765		EPR Properties	1,932,931	72,910
	Americold Realty	0,000,002	210,100		LXP Industrial Trust	7,104,262	71,185
	Trust Inc.	6,941,403	196,511		Broadstone Net		
*	Jones Lang	, , ,	,-		Lease Inc.	4,237,866	68,696
	LaSalle Inc.	1,222,961	194,903		Douglas Emmett Inc.	4,303,019	67,471
	Healthcare Realty				Equity	0.070.505	00.004
	Trust Inc. Class A	9,806,002	188,962	*	Commonwealth	2,678,585	66,884
	Brixmor Property				Howard Hughes Corp. Hannon Armstrong	871,925	66,633
	Group Inc.	7,727,505	175,183		Sustainable		
	Medical Properties	45 400 404	474 040		Infrastructure		
	Trust Inc.	15,408,104	171,646		Capital Inc.	2,292,654	66,441
	Omega Healthcare Investors Inc.	6,033,992	168,650		Park Hotels &		
	EastGroup	0,033,332	100,000		Resorts Inc.	5,503,960	64,892
	Properties Inc.	1,122,771	166,237		SITE Centers Corp.	4,654,296	63,578
	First Industrial Realty	.,,.	.00,207		Outfront Media Inc.	3,806,598	63,113
	Trust Inc.	3,404,554	164,304		Macerich Co.	5,534,403	62,317
	Agree Realty Corp.	2,282,311	161,884	1	SL Green Realty Corp.	1,657,248	55,882
	STAG Industrial Inc.	4,617,740	149,199		JBG SMITH		
	Host Hotels &				Properties	2,932,004	55,649
	Resorts Inc.	9,211,706	147,848		National Health	4 000 055	== 404
	Spirit Realty				Investors Inc.	1,062,055	55,461
	Capital Inc.	3,598,521	143,689		Sunstone Hotel	E 421 104	E2 260
	Regency Centers			*,1	Investors Inc. Cushman & Wakefield	5,421,104	52,368
	Corp.	2,204,570	137,786	, '	plc	4,072,248	50,740
	Apartment Income	0.000 = 1 =	400.00=		Kennedy-Wilson	1,012,240	50,740
	REIT Corp. Class A	3,900,518	133,827		Holdings Inc.	3,018,090	47,475
	Rayonier Inc.	3,772,756	124,350		CareTrust REIT Inc.	2,500,019	46,450
	Kite Realty Group Trust	5 6/E 271	110 025		Retail Opportunity	, ,	-,0
	Kilroy Realty Corp.	5,645,371 3,011,543	118,835 116,456		Investments Corp.	3,050,009	45,842
	Kindy Healty Corp.	0,011,040	110,450				

	Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
Tanger Factory Outlet				Universal Health		
Centers Inc. Pebblebrook Hotel	2,554,106	45,821	*,1	Realty Income Trust Opendoor	320,070	15,277
Trust	3,387,687	45,361		Technologies Inc.	13,074,432	15,166
DigitalBridge		45.000		Saul Centers Inc.	338,577	13,773
Group Inc.	4,115,726	45,026		Alexander's Inc.	52,631	11,582
RLJ Lodging Trust DiamondRock	4,175,583	44,219		RMR Group Inc. Class A	400,310	11,309
Hospitality Co.	5,394,747	44,183	*,1	Redfin Corp.	2,662,304	11,288
Urban Edge Properties	2,874,590	40,503	*,1	WeWork Inc.	7,297,911	10,436
Elme Communities InvenTrust Properties	2,255,106	40,141		Summit Hotel Properties Inc.	1,308,459	9,447
Corp. Xenia Hotels &	1,650,555	39,069		Bridge Investment Group Holdings Inc.	, ,	-,
Resorts Inc.	2,933,408	38,662		Class A	715,867	8,626
LTC Properties Inc.	1,043,621	37,080		Urstadt Biddle		
Getty Realty Corp.	1,083,724	36,684		Properties Inc.		
<ul> <li>Veris Residential Inc.</li> </ul>	2,229,726	35,520		Class A	415,896	7,881
Hudson Pacific			*,1	Forestar Group Inc.	448,923	6,918
Properties Inc.	3,631,507	35,335	, !	Seritage Growth Properties Class A	469,363	5,553
Acadia Realty Trust Alexander &	2,446,950	35,114		Industrial Logistics	100,000	0,000
Baldwin Inc.	1,869,288	35,012		Properties Trust	844,957	2,763
Uniti Group Inc.	6,111,491	33,797	*,2	Spirit MTA REIT	529,410	_
Global Net Lease Inc.	2,674,549	33,619		Douglas Elliman Inc.	57_	_
* GEO Group Inc.	3,038,938	33,276				9,114,562
American Assets			Tech	nology (10.9%)		
Trust Inc.	1,247,771	33,066	*	PTC Inc.	2,724,102	327,001
St. Joe Co. Service Properties	826,704	31,952		Entegris Inc.	3,840,035	251,868
Trust	4,263,259	31,079	*	Ceridian HCM	2 750 606	2/1 10/
Piedmont Office Realty Trust Inc.	.,,	21,212	*	Holding Inc. Lattice Semiconductor	3,759,686	241,184
Class A	3,179,666	29,158		Corp. Jabil Inc.	3,531,495 3,295,693	229,123 224,766
Paramount Group Inc.	4,814,905	28,601	*	Wolfspeed Inc.	3,200,466	220,960
Empire State Realty			*	Dynatrace Inc.	5,191,834	198,847
Trust Inc. Class A	4,133,716	27,861	*	Pure Storage Inc.	-,,	,
Brandywine Realty Trust	4,421,175	27,190		Class A	7,316,935	195,801
Apartment Investment		27,100	*	Manhattan	1 007747	105 100
& Management Co.				Associates Inc. KBR Inc.	1,607,747 3,535,041	195,180 186,650
Class A	3,711,402	26,425		Leidos Holdings Inc.	1,760,936	185,233
Newmark Group Inc.	2 207212	26.200	*	CACI International Inc.	1,700,000	100,200
Class A Centerspace	3,297,312 388,352	26,280 22,785		Class A	605,411	181,980
Marcus &	300,332	22,703	*	Arrow Electronics Inc.	1,584,817	165,724
Millichap Inc.	659,460	22,718		Science Applications		
RPT Realty	2,196,635	22,054		International Corp.	1,420,476	157,573
1 eXp World			*	Coupa Software Inc.	1,956,480	154,895
Holdings Inc.	1,967,551	21,800	*	Nutanix Inc. Class A Aspen Technology Inc.	5,928,514 748,341	154,438 153,709
Necessity Retail	0.450.045	00.510	*	DXC Technology Co.	5,777,917	153,709
REIT Inc. Class A Safehold Inc.	3,459,015	20,512		Concentrix Corp.	998,544	132,966
* Anywhere Real	640,983	18,345	*	Guidewire	333,017	.52,550
Estate Inc.	2,680,143	17,126		Software Inc.	2,109,669	131,981
* Compass Inc. Class A	7,293,794	16,995	*	Smartsheet Inc.		
Office Properties				Class A	3,196,866	125,829
Income Trust	1,251,598	16,709				

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	National Instruments		·	*	Dropbox Inc. Class A	3,431,987	76,808
	Corp.	3,364,224	124,140	*	Alteryx Inc. Class A	1,498,197	75,914
*	Five9 Inc.	1,816,644	123,277	*	SentinelOne Inc.	,,	-,-
*	Fabrinet	942,685	120,871		Class A	5,036,689	73,485
*	SPS Commerce Inc.	928,634	119,264	*	Plexus Corp.	711,895	73,275
*	Novanta Inc.	873,640	118,701	*	CommVault		
	Universal Display				Systems Inc.	1,147,462	72,107
	Corp.	1,095,439	118,351		Vishay		
*	F5 Inc.	777,695	111,607		Intertechnology Inc.	3,338,489	72,011
*	Tenable Holdings Inc.	2,899,075	110,600	*	IPG Photonics Corp.	753,082	71,294
*	Silicon			*	Confluent Inc. Class A	3,169,066	70,480
	Laboratories Inc.	814,731	110,535	*	Toast Inc. Class A	3,877,731	69,915
	Dolby			*	Sprout Social Inc.		
	Laboratories Inc.	4 = 40 0==	100 010		Class A	1,217,891	68,762
	Class A	1,542,655	108,819		Amkor Technology Inc.	2,840,361	68,112
Ţ	Box Inc. Class A	3,483,681	108,447	*	Varonis Systems Inc.		
	Coherent Corp.	3,037,628	106,621		Class B	2,697,956	64,589
	Vertiv Holdings Co.	7777050	400 007		Perficient Inc.	892,246	62,306
	Class A	7,777,250	106,237	*	MaxLinear Inc.	4 004 000	04.050
	Power	1 470 747	105.007	*	Class A	1,821,960	61,856
*	Integrations Inc.	1,473,747	105,697		Altair Engineering Inc.	4 050 455	04.000
	Cirrus Logic Inc.	1,418,723	105,666	*	Class A	1,350,155	61,392
	TD SYNNEX Corp.	1,107,915	104,931		Alarm.com	1 001 711	60.450
Ţ	Elastic NV	1,959,900	100,935	*	Holdings Inc.	1,221,711	60,450
	Workiva Inc. Class A	1,191,052	100,013	* 1	Kyndryl Holdings Inc.	5,259,360	58,484
*	Rambus Inc.	2,769,343	99,198	*,1	Freshworks Inc. Class A	2 042 725	E0 012
*	Qualys Inc.	880,961	98,870	*		3,943,725	58,012
	Avnet Inc.	2,358,018	98,046	*	Verint Systems Inc.	1,596,170	57,909
*	Synaptics Inc.	1,027,306	97,758	*	Rogers Corp.	484,741	57,849
*	Super Micro	4 450 007	05.400		NetScout Systems Inc.	1,768,437	57,492
	Computer Inc.	1,159,097	95,162		Clear Secure Inc.	1,700,437	57,432
	Blackline Inc.	1,386,181	93,248		Class A	2,095,947	57,492
*	Ziff Davis Inc.	1,155,337	91,387		Progress Software	2,000,047	07,402
*	IAC Inc.	2,034,082	90,313		Corp.	1,107,905	55,894
*	Insight	007540	00.004	*	PagerDuty Inc.	2,067,632	54,916
*	Enterprises Inc.	897,512	89,994	*	KnowBe4 Inc. Class A	2,215,909	54,910
*	Teradata Corp.	2,623,148	88,295	*	Allegro	2,210,000	01,010
*	Envestnet Inc.	1,425,583	87,958		MicroSystems Inc.	1,725,234	51,792
	Onto Innovation Inc.	1,275,829	86,871	*	Appfolio Inc. Class A	473,191	49,865
*,1	Gitlab Inc. Class A	1,905,724	86,596	*	UiPath Inc. Class A	3,914,299	49,751
	MACOM Technology			*	Rapid7 Inc.	1,450,010	49,271
	Solutions	1 265 625	96 007	*	nCino Inc.	1,856,467	49,085
*	Holdings Inc.	1,365,625	86,007	*	Allscripts Healthcare	1,000,107	10,000
*	Diodes Inc.	1,113,003	84,744		Solutions Inc.	2,674,375	47,176
	Procore Technologies Inc.	1,778,047	83,888	*	Semtech Corp.	1,636,666	46,956
	Advanced Energy	1,770,047	03,000	*	Yelp Inc. Class A	1,706,629	46,659
	Industries Inc.	963,251	82,628	*	DoubleVerify	.,, 00,020	.0,000
	Dun & Bradstreet	000,201	02,020		Holdings Inc.	2,124,099	46,645
	Holdings Inc.	6,736,355	82,588	*	Bumble Inc. Class A	2,171,963	45,720
*	Sanmina Corp.	1,405,722	80,534	*	HashiCorp Inc.	, ,	,
*	Blackbaud Inc.	1,368,207	80,533		Class A	1,615,371	44,164
*	New Relic Inc.	1,408,742	79,523	*	FormFactor Inc.	1,984,653	44,119
*	NCR Corp.	3,363,318	79,323 78,735		CSG Systems		,
*	RingCentral Inc.	5,505,510	70,733		International Inc.	771,278	44,117
	Class A	2,217,661	78,505	*	Parsons Corp.	933,377	43,169
*	Ambarella Inc.	940,332	77,323		'	•	
	, ibarona irro.	0.10,002	, ,,020				

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	DigitalOcean Holdings Inc.	1,613,094	41,086	*	Fastly Inc. Class A Benchmark	2,852,480	23,362
	Xerox Holdings Corp.	2,793,052	40,779		Electronics Inc.	861,103	22,983
	Methode Electronics Inc.	895,250	39,722	*	Momentive Global Inc. Duck Creek	3,256,085	22,793
*	SiTime Corp.	386,728	39,299		Technologies Inc.	1,881,220	22,669
*,1	Paycor HCM Inc.	1,585,955	38,808	*	Planet Labs PBC	4,809,708	20,922
*	LiveRamp	.,,.	,	*	Zuora Inc. Class A	3,190,300	20,290
	Holdings Inc.	1,627,293	38,144	*	Sprinklr Inc. Class A	2,480,841	20,268
*	Q2 Holdings Inc.	1,407,950	37,832	*	Sumo Logic Inc.	2,443,840	19,795
*	Digital Turbine Inc.	2,423,818	36,939	*	ScanSource Inc.	650,541	19,009
*	Jamf Holding Corp.	1,720,279	36,642	*	Cerence Inc.	1,014,916	18,806
	Pegasystems Inc.	1,058,940	36,258	*	LivePerson Inc.	1,843,947	18,698
*	JFrog Ltd.	1,679,774	35,830	*			
*	TTM Technologies Inc.			*	N-able Inc.	1,629,590	16,752
*		2,370,152	35,742	*	Yext Inc.	2,544,445	16,615
*	Cargurus Inc. Class A	2,520,022	35,306	*,1	Olo Inc. Class A Informatica Inc.	2,593,580	16,210
	Solutions	2.000 E7E	24 700		Class A	923,756	15,048
*	Holdings Inc.	3,998,575	34,788	*	AvePoint Inc.	3,607,856	14,828
* 4	Magnite Inc.	3,265,091	34,577	*	CEVA Inc.	567,637	14,520
*,1	MicroStrategy Inc.	0.44.040	04.404	*	Alkami Technology Inc.	942,902	13,757
	Class A	241,018	34,121	*	Vertex Inc. Class A	941,862	13,666
*,1	Xometry Inc. Class A	1,038,247	33,463	*	PubMatic Inc. Class A	1,054,545	13,509
*	Appian Corp. Class A	1,004,870	32,719	*,1	IonQ Inc.	3,864,310	13,332
*	E2open Parent	E 4E1 004	22.002	*	BigCommerce		
*	Holdings Inc. Upwork Inc.	5,451,994	32,003		Holdings Inc.	1,518,940	13,276
		3,045,858	31,799	*	Amplitude Inc. Class A	1,062,034	12,829
	Shutterstock Inc.	600,069	31,636		Ebix Inc.	637,056	12,716
	Impinj Inc.	283,919	30,998	*	Eventbrite Inc. Class A	2,089,311	12,243
	Everbridge Inc.	1,028,756	30,431	*	Vimeo Inc.	3,441,103	11,803
*	Samsara Inc. Class A Qualtrics	2,425,357	30,147	*	Bandwidth Inc. Class A	E11 606	11 7/11
	International Inc.			*		511,606	11,741
	Class A	2,807,445	29,141	*	SolarWinds Corp.	1,250,385	11,704
*	Zeta Global Holdings	, ,	-,		EngageSmart Inc.	642,124	11,301
*	Corp. Class A Credo Technology	3,365,731	27,498	*	nLight Inc. Definitive Healthcare	1,109,162	11,247
	Group Holding Ltd.	2,064,678	27,481		Corp. Class A	947,747	10,416
*,1	C3.ai Inc. Class A	2,434,662	27,244	*	Intapp Inc.	406,013	10,126
*	PROS Holdings Inc.	1,051,025	25,498	*,1	Cvent Holding Corp.		
*	Squarespace Inc.	1,051,025	25,436		Class A	1,874,349	10,121
	Class A	1,146,374	25,415	*	Expensify Inc. Class A	1,055,350	9,319
*	Schrodinger Inc.	1,359,552	25,410	*,1	Matterport Inc.	3,148,383	8,815
*	ForgeRock Inc.	1,339,332	25,410	*,1	SmartRent Inc.		
	Class A	1,105,539	25,173	*,1	Class A NerdWallet Inc.	3,578,058	8,695
_	Thoughtworks	0.404.047	04.000		Class A	880,318	8,451
	Holding Inc.	2,434,047	24,803	*	Couchbase Inc.	577,059	7,652
^	Consensus Cloud Solutions Inc.	459,788	24,718	*,1	SEMrush Holdings Inc. Class A	787,318	6,409
*	Veeco	1 005 440	04.004	*	MediaAlpha Inc.	. 57,515	0,100
	Instruments Inc.	1,325,113	24,621		Class A	609,641	6,066
	Adeia Inc.	2,589,517	24,549	*	MeridianLink Inc.	417,086	5,727
*	Asana Inc. Class A	1,777,075	24,470	*	Nextdoor	7,000	0,727
*,1	Braze Inc. Class A	877,692	23,943		Holdings Inc.	2,726,473	5,617
*	AppLovin Corp.			*	EverCommerce Inc.	746,906	5,557
	Class A	2,266,491	23,866	*,1	Enfusion Inc. Class A	533,461	5,159
*	3D Systems Corp.	3,210,664	23,759		2doio11 1110. Oldoo A	000,401	5,155

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*,1	Rackspace			Litilit	ies (3.8%)		
	Technology Inc.	1,630,670	4,810	Otilit	Atmos Energy Corp.	3,630,512	406,872
*,1	Rumble Inc.	718,652	4,276		Essential Utilities Inc.	6,082,365	290,311
*	Unisys Corp.	829,663	4,240		Pinnacle West Capital	0,002,000	200,011
*	Blend Labs Inc.	020,000	.,20		Corp.	2,915,133	221,667
	Class A	2,753,846	3,966		OGE Energy Corp.	5,158,303	204,011
*	Telos Corp.	605,963	3,084		UGI Corp.	5,402,924	200,286
*	Aeva Technologies Inc.		2,294		NRG Energy Inc.	5,936,029	188,884
*	SecureWorks Corp.	.,000,000	2,20	*	Clean Harbors Inc.	1,323,607	151,050
	Class A	206,352	1,319		National Fuel Gas Co.	2,357,198	149,211
*,1	Skillz Inc. Class A	2,039,464	1,033		IDACORP Inc.	1,302,779	149,211
	OKIIIZ IIIO. Oldoo71	2,000,101		*			
			12,222,944	*	Sunrun Inc.	5,216,380	125,298
Telec	ommunications (1.3%)				Evoqua Water	2 120 605	124 202
*	Ciena Corp.	3,817,021	194,592		Technologies Corp.	3,138,695	124,292
*	Frontier				New Jersey Resources Corp.	2,483,514	123,232
	Communications	0.040.00=	100.051	*	· ·		
,	Parent Inc.	6,312,837	160,851		Stericycle Inc. Hawaiian Electric	2,375,286	118,503
	Iridium	0.040.505	440.750		Industries Inc.	2,820,753	118,049
	Communications Inc.		149,756		Black Hills Corp.	1,676,765	117,944
	Juniper Networks Inc.		133,628		Portland General	1,070,705	117,344
,	Cable One Inc.	149,671	106,545		Electric Co.	2,299,484	112,675
	Calix Inc.	1,433,219	98,075		South Jersev	2,233,404	112,075
*	Lumentum	4 000 040	07000		Industries Inc.	3,155,411	112,112
	Holdings Inc.	1,669,318	87,088		PNM Resources Inc.	2,211,604	107,904
	Lumen	10 000 404	00.010		Ormat	2,211,004	107,504
	Technologies Inc.	13,336,464	69,616		Technologies Inc.	1,227,556	106,159
	Cogent				ONE Gas Inc.	1,395,000	105,629
	Communications Holdings Inc.	1,113,359	63,551	*	Casella Waste	1,000,000	100,020
*	Viavi Solutions Inc.	5,832,201	61,296		Systems Inc. Class A	1,306,106	103,587
*	Viasat Inc.				Southwest Gas	1,000,100	100,007
		1,850,184	58,558		Holdings Inc.	1,636,365	101,258
*	InterDigital Inc.	764,286	37,817		ALLETE Inc.	1,472,832	95,012
	CommScope Holding Co. Inc.	5,099,900	37,484		Spire Inc.	1,285,150	88,495
	ADTRAN	5,055,500	37,404		NorthWestern Corp.	1,488,770	88,344
	Holdings Inc.	1,800,861	33,838		American States	1,100,770	00,011
*	Infinera Corp.	4,817,844	32,472		Water Co.	952,332	88,138
	Telephone & Data	4,017,044	32,472		California Water	002,002	00,100
	Systems Inc.	2,599,330	27,267		Service Group	1,412,647	85,663
*	Altice USA Inc.	2,000,000	21,201		Avista Corp.	1,900,971	84,289
	Class A	5,572,579	25,634		Clearway Energy Inc.	, , -	, , , , , , , , , , , , , , , , , , , ,
*	Globalstar Inc.	18,561,973	24,687		Class C	2,118,242	67,508
	Shenandoah	10,001,070	21,007		MGE Energy Inc.	931,788	65,598
	Telecommunications			*	Sunnova Energy	,	,
	Co.	1,226,331	19,474		International Inc.	2,516,732	45,326
*	EchoStar Corp.	.,,	,		Northwest Natural	,, -	-,-
	Class A	867,834	14,476		Holding Co.	904,395	43,040
	ATN International Inc.	284,319	12,883		Clearway Energy Inc.		
*	NETGEAR Inc.	707,382	12,811		Class A	891,374	26,670
*	WideOpenWest Inc.	1,355,333	12,347		Excelerate Energy Inc.		
*	Gogo Inc.	819,794	12,100		Class A	526,288	13,184
*	8x8 Inc.	2,734,038	11,811	*	Harsco Corp.	2,047,900	12,881
*	Xperi Inc.	1,066,674	9,184	*,1	NuScale Power Corp.	1,002,818	10,289
*,1	fuboTV Inc.	4,782,887	8,322			-	4,243,876
*	United States Cellular	1,702,007	5,522				4,243,070
	Corp.	336,432	7,015	Total	Common Stocks		
	- I-			(Cost	t \$97,591,174)		111,883,747
			1,523,178				

	Shares	Market Value• (\$000)
Temporary Cash Investme	ents (1.8%)	
Money Market Fund (1.8% 3.4 Vanguard Market Liquidity Fund, 4.334% (Cost \$2,012,495)	20,132,780	2,013,077
Total Investments (101.3% (Cost \$99,603,669)	5)	113,896,824
Other Assets and Liabilities—Net (-1.3%)		(1,426,527)
Net Assets (100%)		112,470,297

#### 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 \$1,357,522,000.
- 2 Security value determined using significant unobservable inputs.
- 3 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 4 Collateral of \$1,483,949,000 was received for securities on loan, of which \$1,475,911,000 is held in Vanguard Market Liquidity Fund and \$8,038,000 is held in cash.

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 2023	2,997	265,370	(4,010)
E-mini S&P 500 Index	March 2023	160	30,888	(863)
E-mini S&P Mid-Cap 400 Index	March 2023	1,274	311,187	(5,344)
				(10,217)

#### 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)
ACI Worldwide Inc.	8/31/23	BANA	1,150	(4.515)	111	_
ACI Worldwide Inc.	8/31/23	BANA	1,108	(4.515)	107	_
ACI Worldwide Inc.	8/31/23	BANA	1,400	(4.515)	136	_
DXC Technology Co.	8/31/23	BANA	4,451	(4.515)	_	(492)
Ollie's Bargain Outlet Holdings Inc.	1/31/23	GSI	15,228	(4.329)	_	(1,196)
Virtu Financial Inc. Class A	8/31/23	BANA	1,087	(4.515)	_	(79)
Virtu Financial Inc. Class A	8/31/23	BANA	288	(4.515)	_	(21)
					354	(1,788)

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

GSI-Goldman Sachs International.

# Statement of Assets and Liabilities

As of December 31, 2022

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value <sup>1</sup>	
Unaffiliated Issuers (Cost \$97,591,174)	111,883,747
Affiliated Issuers (Cost \$2,012,495)	2,013,077
Total Investments in Securities	113,896,824
Investment in Vanguard	4,348
Cash	115,713
Cash Collateral Pledged—Futures Contracts	42,119
Cash Collateral Pledged—Over-the-Counter Swap Contracts	1,749
Receivables for Investment Securities Sold	92
Receivables for Accrued Income	133,852
Receivables for Capital Shares Issued	52,258
Unrealized Appreciation—Over-the-Counter Swap Contracts	354
Total Assets	114,247,309
Liabilities	
Payables for Investment Securities Purchased	102,522
Collateral for Securities on Loan	1,483,949
Payables for Capital Shares Redeemed	183,350
Payables to Vanguard	2,334
Variation Margin Payable—Futures Contracts	3,069
Unrealized Depreciation—Over-the-Counter Swap Contracts	1,788
Total Liabilities	1,777,012
Net Assets	112,470,297

1 Includes \$1,357,522,000 of securities on loan.

#### Statement of Assets and Liabilities (continued)

At December 31, 2022, net assets consisted of:	
(\$000s, except shares, footnotes, and per-share amounts)	Amount
Paid-in Capital	106,928,661
Total Distributable Earnings (Loss)	5,541,636
Net Assets	112,470,297
Investor Shares—Net Assets	
Applicable to 4,821,214 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	423,918
Net Asset Value Per Share—Investor Shares	\$87.93
ETF Shares – Net Assets	
Applicable to 221,196,272 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	40,592,992
Net Asset Value Per Share—ETF Shares	\$183.52
Admiral Shares—Net Assets	
Applicable to 511,098,386 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	44,944,377
Net Asset Value Per Share—Admiral Shares	\$87.94
Institutional Shares—Net Assets	
Applicable to 197,453,652 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	17,362,758
Net Asset Value Per Share—Institutional Shares	\$87.93
Institutional Plus Shares—Net Assets	
Applicable to 36,036,312 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	9,146,252
Net Asset Value Per Share—Institutional Plus Shares	\$253.81

## Statement of Operations

Year Ended December 31, 2022 (\$000)Investment Income Income Dividends1 1.741.876 Interest<sup>2</sup> 12,171 82.164 Securities Lending-Net Total Income 1.836.211 Expenses The Vanguard Group—Note B Investment Advisory Services 2.241 Management and Administrative—Investor Shares 777 Management and Administrative—ETF Shares 16.945 Management and Administrative—Admiral Shares 19.930 Management and Administrative—Institutional Shares 6,118 Management and Administrative—Institutional Plus Shares 2,480 Marketing and Distribution—Investor Shares 27 Marketing and Distribution-ETF Shares 2.206 Marketing and Distribution—Admiral Shares 1,968 Marketing and Distribution—Institutional Shares 563 Marketing and Distribution—Institutional Plus Shares 295 742 Custodian Fees Auditing Fees 37 Shareholders' Reports-Investor Shares Shareholders' Reports-ETF Shares 1.325 Shareholders' Reports—Admiral Shares 651 Shareholders' Reports-Institutional Shares 239 Shareholders' Reports—Institutional Plus Shares 83 Trustees' Fees and Expenses 44 Other Expenses 31 Total Expenses 56.704 Expenses Paid Indirectly (133)Net Expenses 56,571 Net Investment Income 1.779.640 Realized Net Gain (Loss) Investment Securities Sold<sup>2,3</sup> 3,828,657 **Futures Contracts** (127, 457)Swap Contracts (30.848)Realized Net Gain (Loss) 3,670,352

#### Statement of Operations (continued)

Statement of Operations (continued)		
	Year Ended December 31, 2022	
	(\$000)	
Change in Unrealized Appreciation (Depreciation)		
Investment Securities	(30,101,161)	
Futures Contracts	(25,693)	
Swap Contracts	(9,784)	
Change in Unrealized Appreciation (Depreciation)	(30,136,638)	
Net Increase (Decrease) in Net Assets Resulting from Operations	(24,686,646)	

<sup>1</sup> Dividends are net of foreign withholding taxes of \$38,000.

<sup>2</sup> Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$11,601,000, (\$282,000), \$2,000, and \$312,000, respectively. Purchases and sales are for temporary cash investment purposes.

<sup>3</sup> Includes \$6,957,448,000 of net gain (loss) resulting from in-kind redemptions.

# Statement of Changes in Net Assets

	Year Ended December 31,		
	2022 (\$000)	2021 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	1,779,640	1,718,894	
Realized Net Gain (Loss)	3,670,352	10,495,579	
Change in Unrealized Appreciation (Depreciation)	(30,136,638)	8,205,881	
Net Increase (Decrease) in Net Assets Resulting from Operations	(24,686,646)	20,420,354	
Distributions			
Investor Shares	(6,214)	(8,073)	
ETF Shares	(624,299)	(596,413)	
Admiral Shares	(686,977)	(684,429)	
Institutional Shares	(267,947)	(275,247)	
Institutional Plus Shares	(147,092)	(153,202)	
Total Distributions	(1,732,529)	(1,717,364)	
Capital Share Transactions			
Investor Shares	(85,166)	(201,756)	
ETF Shares	14,486	6,570,091	
Admiral Shares	58,508	234,027	
Institutional Shares	(448,033)	(197,115)	
Institutional Plus Shares	(1,200,734)	799,184	
Net Increase (Decrease) from Capital Share Transactions	(1,660,939)	7,204,431	
Total Increase (Decrease)	(28,080,114)	25,907,421	
Net Assets			
Beginning of Period	140,550,411	114,642,990	
End of Period	112,470,297	140,550,411	

# Financial Highlights

#### **Investor Shares**

For a Share Outstanding			Year Ended December 31,			
Throughout Each Period	2022	2021	2020	2019	2018	
Net Asset Value, Beginning of Period	\$108.35	\$93.20	\$79.35	\$63.21	\$70.76	
Investment Operations						
Net Investment Income <sup>1</sup>	1.256	1.230	.928	.832	.967	
Net Realized and Unrealized Gain (Loss) on Investments	(20.439)	15.130	13.897	16.319	(7.552)	
Total from Investment Operations	(19.183)	16.360	14.825	17.151	(6.585)	
Distributions						
Dividends from Net Investment Income	(1.237)	(1.210)	(.975)	(1.011)	(.965)	
Distributions from Realized Capital Gains	_	_	_	_	_	
Total Distributions	(1.237)	(1.210)	(.975)	(1.011)	(.965)	
Net Asset Value, End of Period	\$87.93	\$108.35	\$93.20	\$79.35	\$63.21	
Total Return <sup>2</sup>	-17.71%	17.59%	18.96%	27.22%	-9.43%	
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$424	\$619	\$709	\$754	\$3,332	
Ratio of Total Expenses to Average Net Assets	0.17%3	0.17%	0.17%	0.17%	0.17%	
Ratio of Net Investment Income to Average Net Assets	1.34%	1.17%	1.26%	1.14%	1.34%	
Portfolio Turnover Rate <sup>4</sup>	14%	17%	22%	16%	15%	

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.17%.

<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.

#### **ETF Shares**

For a Share Outstanding	Year Ended December 31,				cember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$226.15	\$194.54	\$165.64	\$131.94	\$147.71
Investment Operations					
Net Investment Income <sup>1</sup>	2.891	2.769	2.262	2.298	2.239
Net Realized and Unrealized Gain (Loss) on Investments	(42.700)	31.637	28.863	33.707	(15.808)
Total from Investment Operations	(39.809)	34.406	31.125	36.005	(13.569)
Distributions					
Dividends from Net Investment Income	(2.821)	(2.796)	(2.225)	(2.305)	(2.201)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.821)	(2.796)	(2.225)	(2.305)	(2.201)
Net Asset Value, End of Period	\$183.52	\$226.15	\$194.54	\$165.64	\$131.94
Total Return	-17.60%	17.72%	19.08%	27.37%	-9.30%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$40,593	\$50,187	\$37,492	\$27,442	\$20,914
Ratio of Total Expenses to Average Net Assets	0.05%2	0.05%	0.05%	0.05%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.49%	1.25%	1.47%	1.49%	1.46%
Portfolio Turnover Rate <sup>3</sup>	14%	17%	22%	16%	15%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.05%.

<sup>3</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		Year Ended December 31			
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$108.37	\$93.22	\$79.37	\$63.23	\$70.78
Investment Operations					
Net Investment Income <sup>1</sup>	1.383	1.358	1.029	1.108	1.067
Net Realized and Unrealized Gain (Loss) on Investments	(20.461)	15.131	13.887	16.136	(7.563)
Total from Investment Operations	(19.078)	16.489	14.916	17.244	(6.496)
Distributions					
Dividends from Net Investment Income	(1.352)	(1.339)	(1.066)	(1.104)	(1.054)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.352)	(1.339)	(1.066)	(1.104)	(1.054)
Net Asset Value, End of Period	\$87.94	\$108.37	\$93.22	\$79.37	\$63.23
Total Return <sup>2</sup>	-17.61%	17.73%	19.11%	27.37%	-9.31%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$44,944	\$55,266	\$47,313	\$42,386	\$31,382
Ratio of Total Expenses to Average Net Assets	0.05%3	0.05%	0.05%	0.05%	0.05%
Ratio of Net Investment Income to Average Net Assets	1.48%	1.29%	1.40%	1.50%	1.46%
Portfolio Turnover Rate <sup>4</sup>	14%	17%	22%	16%	15%

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.05%.

<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.

#### Institutional Shares

For a Share Outstanding	Year Ended December 3				ember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$108.36	\$93.22	\$79.37	\$63.22	\$70.78
Investment Operations					
Net Investment Income <sup>1</sup>	1.392	1.367	1.034	1.101	1.076
Net Realized and Unrealized Gain (Loss) on Investments	(20.461)	15.123	13.889	16.161	(7.575)
Total from Investment Operations	(19.069)	16.490	14.923	17.262	(6.499)
Distributions					
Dividends from Net Investment Income	(1.361)	(1.350)	(1.073)	(1.112)	(1.061)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.361)	(1.350)	(1.073)	(1.112)	(1.061)
Net Asset Value, End of Period	\$87.93	\$108.36	\$93.22	\$79.37	\$63.22
Total Return	-17.60%	17.73%	19.12%	27.40%	-9.32%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$17,363	\$21,841	\$18,957	\$17,337	\$14,454
Ratio of Total Expenses to Average Net Assets	0.04%2	0.04%	0.04%	0.04%	0.04%
Ratio of Net Investment Income to Average Net Assets	1.49%	1.29%	1.41%	1.49%	1.47%
Portfolio Turnover Rate <sup>3</sup>	14%	17%	22%	16%	15%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.04%.

<sup>3</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 Plus Shares

For a Share Outstanding	Year Ended December 31,				cember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$312.78	\$269.07	\$229.09	\$182.49	\$204.30
Investment Operations					
Net Investment Income <sup>1</sup>	3.998	4.029	2.988	3.186	3.102
Net Realized and Unrealized Gain (Loss) on Investments	(59.013)	43.607	40.111	46.645	(21.825)
Total from Investment Operations	(55.015)	47.636	43.099	49.831	(18.723)
Distributions					
Dividends from Net Investment Income	(3.955)	(3.926)	(3.119)	(3.231)	(3.087)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(3.955)	(3.926)	(3.119)	(3.231)	(3.087)
Net Asset Value, End of Period	\$253.81	\$312.78	\$269.07	\$229.09	\$182.49
Total Return	-17.60%	17.75%	19.13%	27.40%	-9.30%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$9,146	\$12,638	\$10,172	\$8,846	\$7,866
Ratio of Total Expenses to Average Net Assets	0.03%2	0.03%	0.03%	0.03%	0.03%
Ratio of Net Investment Income to Average Net Assets	1.48%	1.32%	1.41%	1.49%	1.48%
Portfolio Turnover Rate <sup>3</sup>	14%	17%	22%	16%	15%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.03%.

<sup>3</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 Small-Cap Index Fund is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. The fund offers five classes of shares: Investor Shares, ETF Shares, Admiral Shares, Institutional Shares, and Institutional Plus 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.

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.

- 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.
- 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, 2022, the fund's average investments in long and short futures contracts represented 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

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

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

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

During the year ended December 31, 2022, 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 \$4.4 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, 2022, the fund did not utilize the credit facilities or the Interfund Lending Program.

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. 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, 2022, the fund had contributed to Vanguard capital in the amount of \$4,348,000, representing less than 0.01% of the fund's net assets and 1.74% of Vanguard's capital received pursuant to the FSA. The fund's trustees and officers are also directors and employees, respectively, of Vanguard.

- C. 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, 2022, custodian fee offset arrangements reduced the fund's expenses by \$133,000 (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, 2022, based on the inputs used to value them:

	Level 1	Level 2	Level 3	Total
	(\$000)	(\$000)	(\$000)	(\$000)
Investments				
Assets				
Common Stocks	111,883,316	_	431	111,883,747
Temporary Cash Investments	2,013,077	_	_	2,013,077
Total	113,896,393	_	431	113,896,824
Derivative Financial Instruments				
Assets				
Swap Contracts	_	354	_	354
Liabilities				
Futures Contracts <sup>1</sup>	10,217	_	_	10,217
Swap Contracts	_	1,788	_	1,788
Total	10,217	1,788	_	12,005

<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, and swap agreements were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	6,961,897
Total Distributable Earnings (Loss)	(6,961,897)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to the deferral of losses from wash sales; the recognition of unrealized gains or losses from certain derivative contracts; the deferral of qualified late-year losses; 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	_
Undistributed Long-Term Gains	
Capital Loss Carryforwards	(8,236,193)
Qualified Late-Year Losses	(1,492)
Net Unrealized Gains (Losses)	13,779,321

The tax character of distributions paid was as follows:

	Year Ended D	ecember 31,
	2022	2021
	Amount (\$000)	Amount (\$000)
Ordinary Income*	1,732,529	1,717,364
Long-Term Capital Gains	_	_
Total	1,732,529	1,717,364

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

As of December 31, 2022, 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	100,117,503
Gross Unrealized Appreciation	32,734,530
Gross Unrealized Depreciation	(18,955,209)
Net Unrealized Appreciation (Depreciation)	13,779,321

F. During the year ended December 31, 2022, the fund purchased \$28,704,177,000 of investment securities and sold \$29,965,967,000 of investment securities, other than temporary cash investments. Purchases and sales include \$12,017,822,000 and \$12,879,056,000, 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, 2022, such purchases were \$3,403,611,000 and sales were \$776,426,000, resulting in net realized loss of \$311,718,000; 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 31				
		2022		2021	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
Investor Shares					
Issued	35,984	380	83,822	804	
Issued in Lieu of Cash Distributions	6,214	70	8,073	77	
Redeemed	(127,364)	(1,341)	(293,651)	(2,772)	
Net Increase (Decrease)—Investor Shares	(85,166)	(891)	(201,756)	(1,891)	

	Year Ended December				
		2022		2021	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
ETF Shares					
Issued	12,638,116	65,853	19,022,966	85,746	
Issued in Lieu of Cash Distributions	_	_	_	_	
Redeemed	(12,623,630)	(66,575)	(12,452,875)	(56,550)	
Net Increase (Decrease)—ETF Shares	14,486	(722)	6,570,091	29,196	
Admiral Shares					
Issued	5,970,913	63,999	8,639,338	82,503	
Issued in Lieu of Cash Distributions	610,188	6,862	609,812	5,775	
Redeemed	(6,522,593)	(69,746)	(9,015,123)	(85,813)	
Net Increase (Decrease)—Admiral Shares	58,508	1,115	234,027	2,465	
Institutional Shares					
Issued	2,809,736	30,018	4,948,740	47,094	
Issued in Lieu of Cash Distributions	252,294	2,838	260,028	2,463	
Redeemed	(3,510,063)	(36,950)	(5,405,883)	(51,369)	
Net Increase (Decrease)—Institutional Shares	(448,033)	(4,094)	(197,115)	(1,812)	
Institutional Plus Shares					
Issued	1,096,807	4,082	3,027,331	9,968	
Issued in Lieu of Cash Distributions	147,006	572	153,202	502	
Redeemed	(2,444,547)	(9,024)	(2,381,349)	(7,870)	
Net Increase (Decrease)—Institutional Plus Shares	(1,200,734)	(4,370)	799,184	2,600	

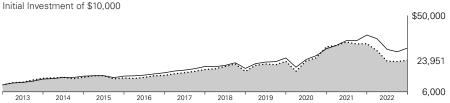
**H.** Management has determined that no events or transactions occurred subsequent to December 31, 2022, that would require recognition or disclosure in these financial statements.

## Small-Cap Growth 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, 2012, Through December 31, 2022



#### Average Annual Total Returns Periods Ended December 31, 2022

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Growth Index Fund Investor Shares	-28.49%	4.97%	9.13%	\$23,951
······ Spliced Small-Cap Growth Index	-28.44	5.09	9.22	24,147
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Spliced Small-Cap Growth Index: MSCI US Small Cap Growth Index through April 16, 2013; CRSP US Small Cap Growth Index thereafter.

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Growth Index Fund ETF Shares Net Asset Value	-28.40%	5.10%	9.27%	\$24,257
Small-Cap Growth Index Fund ETF Shares Market Price	-28.41	5.09	9.26	24,249
Spliced Small-Cap Growth Index	-28.44	5.09	9.22	24,147
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Average Annual Total Returns
Periods Ended December 31, 2022

	renous En	ded Decembe	el 31, 2022	_
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Growth Index Fund Admiral Shares	-28.39%	5.10%	9.27%	\$24,259
Spliced Small-Cap Growth Index	-28.44	5.09	9.22	24,147
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Small-Cap Growth Index Fund Institutional Shares	-28.39%	5.10%	9.27%	\$12,137,224
Spliced Small-Cap Growth Index	-28.44	5.09	9.22	12,073,385
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	15,575,514

#### Cumulative Returns of ETF Shares: December 31, 2012, Through December 31, 2022

	One Year	Five Years	Ten Years
Small-Cap Growth Index Fund ETF Shares Market Price	-28.41%	28.17%	142.49%
Small-Cap Growth Index Fund ETF Shares Net Asset Value	-28.40	28.22	142.57
Spliced Small-Cap Growth Index	-28.44	28.20	141.47

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, 2022

Basic Materials	2.0%
Consumer Discretionary	14.9
Consumer Staples	3.5
Energy	6.4
Financials	4.6
Health Care	21.2
Industrials	19.1
Real Estate	6.3
Technology	18.6
Telecommunications	1.8
Utilities	1.6

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, 2022

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

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
C		Silaies	(\$000)	*	RH		
	mmon Stocks (99.8%)			*	Penn Entertainment Inc.	264,852 2,309,216	70,766 68,584
Bas	sic Materials (2.0%)			*	DraftKings Inc. Class A	5,680,067	64,696
	Royal Gold Inc.	976,564	110,078	*	Hyatt Hotels Corp.	5,060,007	04,090
*	RBC Bearings Inc.	431,844	90,406		Class A	680,188	61,523
	Hexcel Corp.	1,252,907	73,733		Wingstop Inc.	445,254	61,276
	Balchem Corp.	478,132	58,385		Choice Hotels	443,234	01,270
*	Livent Corp.	2,669,531	53,044		International Inc.	515,546	58,071
*	MP Materials Corp.	1,585,958	38,507	*	Fox Factory Holding	010,010	00,071
*	Ingevity Corp.	528,661	37,239		Corp.	629,301	57,411
	NewMarket Corp.	110,285	34,311		Boyd Gaming Corp.	1,009,269	55,035
	Quaker Chemical Corp.	200,365	33,441	*	Visteon Corp.	418,885	54,803
*	Century Aluminum Co.	745,375	6,097	*	Bright Horizons Family	110,000	01,000
*,1	Amyris Inc.	3,382,118	5,175		Solutions Inc.	859,740	54,250
		_	540,416	*	YETI Holdings Inc.	1,284,001	53,042
Cor	nsumer Discretionary (14.8	90/ \	540,410	*	Lyft Inc. Class A	4,722,068	52,037
*	Liberty Media	70)		*	Hilton Grand	1,722,000	02,007
	CorpLiberty Formula				Vacations Inc.	1,284,463	49,503
	One Class C	2,916,398	174,342	*	Grand Canvon	1,201,100	.0,000
*	Deckers Outdoor Corp.	393,856	157.212		Education Inc.	463,426	48,966
*	Five Below Inc.	784,777	138,804	*	Chegg Inc.	1,774,496	44,842
	Churchill Downs Inc.	500,832	105,891		World Wrestling	.,,	,
*	Floor & Decor	300,032	103,031		Entertainment Inc.		
	Holdings Inc. Class A	1,500,573	104,485		Class A	643,902	44,120
*	Planet Fitness Inc.	1,300,373	104,403	*	Ollie's Bargain Outlet		
	Class A	1,241,400	97,822		Holdings Inc.	931,753	43,643
	Gentex Corp.	3,491,167	95,204		Madison Square Garden		
*	Crocs Inc.	872,983	94,658		Sports Corp.	235,827	43,234
	Wyndham Hotels &	072,303	54,050	*	Skyline Champion Corp.	804,873	41,459
	Resorts Inc.	1,314,374	93,728	*	Topgolf Callaway Brands		
	Nexstar Media Group Inc.	1,011,071	00,720		Corp.	2,063,849	40,761
	Class A	533,032	93,297		Columbia Sportswear Co.	462,323	40,490
	Texas Roadhouse Inc.	,	,		Papa John's		
	Class A	995,580	90,548		International Inc.	473,441	38,969
*	Skechers USA Inc.	,	,	*,1	Wayfair Inc. Class A	1,152,105	37,893
	Class A	1,997,169	83,781	*	Peloton Interactive Inc.		
	Pool Corp.	276,048	83,458		Class A	4,435,330	35,217
	Tempur Sealy	-,	,		LCI Industries	359,890	33,272
	International Inc.	2,416,849	82,970	*	Gentherm Inc.	494,677	32,297
*	IAA Inc.	1,990,568	79,623	*	Dorman Products Inc.	397,930	32,181
*	SiteOne Landscape		,	*	Sonos Inc.	1,887,482	31,898
	Supply Inc.	671,392	78,768	*	Sabre Corp.	4,894,963	30,251
	Vail Resorts Inc.	300,094	71,527	*	Duolingo Inc. Class A	396,420	28,197
		,	,		•		

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
*	0 14/ 11	Silaies	(\$000)	*	0 . 0 . 1		
	SeaWorld Entertainment Inc.	523,983	28,038	*	Corsair Gaming Inc.	596,519	8,095
*	TripAdvisor Inc.	1,524,607	27,412	*	Poshmark Inc. Class A Sun Country Airlines	443,844	7,936
*	LGI Homes Inc.	295,035	27,320		Holdings Inc.	474,792	7.530
*	Frontdoor Inc.	1,215,907	25,291	*	Integral Ad Science	171,702	7,000
	Inter Parfums Inc.	261,424	25,233		Holding Corp.	798,835	7,022
*,1	Leslie's Inc.	2,047,543	25,001	*	2U Inc.	1,102,621	6,913
*	Six Flags Entertainment		,	*,1	Carvana Co. Class A	1,414,990	6,707
	Corp.	1,054,695	24,522	*	Udemy Inc.	576,409	6,081
*	Driven Brands			*	Vizio Holding Corp.		
	Holdings Inc.	869,422	23,744		Class A	697,575	5,169
*	Shake Shack Inc. Class A	556,705	23,120	*	Sciplay Corp. Class A	319,832	5,143
*	National Vision	E00.04E	00.000	*	Frontier Group	404.000	4.070
	Holdings Inc.	588,815	22,822	*,1	Holdings Inc.	484,833	4,979
	Dave & Buster's Entertainment Inc.	608,434	21,563	*,1	Canoo Inc.	3,674,653	4,520
	Jack in the Box Inc.	308,407	21,043	*,1	ContextLogic Inc. Class A Bowlero Corp.		4,168
*	elf Beauty Inc.	373,181	20,637	*	Arhaus Inc. Class A	290,923 319,743	3,922 3,118
	Levi Strauss & Co.	070,101	20,007	*,1	SES Al Corp.	923,620	2,909
	Class A	1,292,292	20,056	*	Rush Street	323,020	2,303
*,1	QuantumScape Corp.		,		Interactive Inc.	809,409	2,906
	Class A	3,438,797	19,498	*,1	Dream Finders	555,155	2,000
*	Liberty Media				Homes Inc. Class A	317,787	2,752
	CorpLiberty Formula			*	Angi Inc. Class A	1,036,743	2,436
	One Class A	359,765	19,222	*	Vacasa Inc. Class A	1,739,974	2,192
*,1	iRobot Corp.	385,569	18,557	*,1	Bed Bath & Beyond Inc.	827,051	2,076
*	Madison Square Garden	200 201	17551	*	Stitch Fix Inc. Class A	571,217	1,776
*,1	Entertainment Corp.	390,281	17,551	*	Allbirds Inc. Class A	714,518	1,729
*	Dutch Bros Inc. Class A Coursera Inc.	608,144	17,144	1	Weber Inc. Class A	139,716	1,125
	Steven Madden Ltd.	1,413,977	16,727	*	Latham Group Inc.	304,281	980
*,1	Luminar Technologies Inc.	519,972	16,618	*	Brilliant Earth Group Inc.		
, .	Class A	3,351,076	16,588		Class A	165,260	712
*	Allegiant Travel Co.	232,105	15,781	*	Cardlytics Inc.	117,077_	677
	Spirit Airlines Inc.	807,833	15,737				3,939,653
	Red Rock Resorts Inc.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,	Cor	sumer Staples (3.5%)		
	Class A	365,920	14,640	*	Darling Ingredients Inc.	2,385,012	149,278
*	ACV Auctions Inc.				Casey's General		
	Class A	1,746,082	14,335		Stores Inc.	554,249	124,346
*	Cavco Industries Inc.	62,772	14,202		Lamb Weston	1 000 100	05 500
*	Boot Barn Holdings Inc.	221,117	13,824	*	Holdings Inc.	1,069,480	95,569
*	Revolve Group Inc.	004 500	40.457	*	Celsius Holdings Inc.	623,952	64,916
*	Class A	604,533	13,457	*	Simply Good Foods Co.	1,473,520	56,038
*	Overstock.com Inc.	678,787	13,141	*	BellRing Brands Inc. Boston Beer Co. Inc.	2,000,970	51,305
*,1	Figs Inc. Class A	1,888,442	12,709		Class A	137,005	45,146
1	Fisker Inc. Class A	1,731,816	12,590	*	Freshpet Inc.	679,451	35,855
	Camping World Holdings Inc. Class A	562,525	12,556	*	Post Holdings Inc.	392,793	35,453
*	Petco Health & Wellness	302,323	12,000		Coca-Cola	002,700	00,.00
	Co. Inc. Class A	1,183,423	11,219		Consolidated Inc.	68,555	35,125
	Monro Inc.	233,310	10,546		WD-40 Co.	202,335	32,618
*	Sweetgreen Inc. Class A	1,227,585	10,520		Cal-Maine Foods Inc.	591,562	32,211
*,1	Mister Car Wash Inc.	1,131,449	10,443		Lancaster Colony Corp.	143,761	28,364
*	Portillo's Inc. Class A	598,352	9,765		J & J Snack Foods Corp.	171,995	25,749
*	Stride Inc.	303,351	9,489		Medifast Inc.	163,252	18,831
*	Life Time Group				Utz Brands Inc.	1,019,110	16,163
	Holdings Inc.	720,225	8,614	*	National Beverage Corp.	346,190	16,108

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Beauty Health Co.	1,381,301	12,570		Sitio Royalties Corp.	272,404	7,859
*,1	Beyond Meat Inc.	851,419	10,481	*	Tellurian Inc.	3,771,812	6,337
	Tootsie Roll	000 100	40.404	*,1	EVgo Inc. Class A	1,028,727	4,598
	Industries Inc.	239,162	10,181	*	OPAL Fuels Inc. Class A	28,334_	206
	Sovos Brands Inc.	524,375	7,535				1,685,559
	USANA Health Sciences Inc.	85,465	4,547	Fina	ancials (4.6%)		
*	Olaplex Holdings Inc.	721,891	3,761		LPL Financial		
*	Vital Farms Inc.	183,328	2,735		Holdings Inc.	562,552	121,607
*,1	BRC Inc. Class A	296,838	1,814		Erie Indemnity Co.		
, .	BITC IIIC. Class A	230,030_	1,014		Class A	377,837	93,976
			916,699		Kinsale Capital Group Inc.	326,258	85,323
Ene	rgy (6.4%)				Morningstar Inc.	378,972	82,081
	Targa Resources Corp.	3,367,150	247,486		Pinnacle Financial		70.000
*	First Solar Inc.	753,449	112,859		Partners Inc.	1,081,198	79,360
	Texas Pacific Land Corp.	45,841	107,462		Robinhood Markets Inc.	0.000.000	70.554
	Matador Resources Co.	1,669,352	95,554		Class A	9,036,099	73,554
	PDC Energy Inc.	1,370,325	86,988		Blue Owl Capital Inc. Class A	6 520 400	60.201
	ChampionX Corp.	2,965,000	85,955	*		6,528,400	69,201
	EQT Corp.	2,456,973	83,119		Ryan Specialty Holdings Inc. Class A	1,253,919	52,050
*	Denbury Inc.	703,736	61,239	*,1	SoFi Technologies Inc.	11,054,289	50,960
	NOV Inc.	2,920,389	61,007		ServisFirst	11,004,200	30,300
	Magnolia Oil & Gas Corp.				Bancshares Inc.	727,745	50,149
	Class A	2,509,337	58,844		Western Alliance Bancorp		45,882
	Cactus Inc. Class A	903,603	45,415	*,1	Credit Acceptance Corp.	96,203	45,639
	Civitas Resources Inc.	760,096	44,032		Houlihan Lokey Inc.	,	,
*	Array Technologies Inc.	2,127,863	41,132		Class A	371,393	32,371
	New Fortress Energy Inc.	947,048	40,174		Hamilton Lane Inc.		
	Liberty Energy Inc.	0.440.570	00.400		Class A	479,684	30,642
* 1	Class A	2,442,576	39,106		Virtu Financial Inc.		
*,1	ChargePoint Holdings Inc.		38,594		Class A	1,378,470	28,134
	Helmerich & Payne Inc.	706,163	35,004	*	Focus Financial		
	Callon Petroleum Co.	917,871	34,044		Partners Inc. Class A	736,626	27,454
	Shoals Technologies	1 200 571	21 020	*,1	Trupanion Inc.	548,614	26,076
	Group Inc. Class A	1,290,571	31,838		PJT Partners Inc. Class A	326,093	24,030
	SM Energy Co. Alpha Metallurgical	910,971	31,729		Cohen & Steers Inc.	363,504	23,468
	Resources Inc.	201,986	29,569	*	BRP Group Inc. Class A	916,589	23,043
*	Noble Corp. plc	780,193	29,421		StepStone Group Inc.		
*	Ameresco Inc. Class A	480,473	27,454		Class A	782,956	19,715
*	Weatherford International	400,470	27,404	*,1	Upstart Holdings Inc.	1,032,728	13,653
	plc	526,271	26,798		TFS Financial Corp.	832,801	12,001
*	Oceaneering	020,27	20,700	*,1	Lemonade Inc.	718,643	9,831
	International Inc.	1,495,858	26,163	*	Goosehead	000 400	0.000
	Enviva Inc.	446,084	23,629		Insurance Inc. Class A	282,193	9,690
*,1	Stem Inc.	2,177,746	19,469		Open Lending Corp.	1 405 604	0.400
	Comstock Resources Inc.		19,021	*	Class A	1,405,604	9,488
*	FuelCell Energy Inc.	6,017,621	16,729	*	Triumph Financial Inc.	172,542	8,432
*	NexTier Oilfield			*,1	Palomar Holdings Inc.	177,903	8,034
	Solutions Inc.	1,548,288	14,306	, 1	Silvergate Capital Corp. Class A	446,298	7,765
*	Dril-Quip Inc.	478,126	12,991	*,1	Riot Blockchain Inc.	2,234,835	7,765
*	SunPower Corp.	645,750	11,643	*	Clearwater Analytics	2,204,000	7,576
	RPC Inc.	1,285,469	11,428		Holdings Inc. Class A	395,434	7,414
	Kinetik Holdings Inc.				Live Oak Bancshares Inc.	244,739	7,414
	Class A	255,712	8,459		P10 Inc. Class A	607,394	6,481
*	Helix Energy Solutions	•	•	*,1	Marathon Digital	007,004	0,401
	Group Inc.	1,070,163	7,898	,.	Holdings Inc.	1,647,299	5,634
						.,5.,,200	3,004

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Oscar Health Inc. Class A	1,902,647	4,680	*	10X Genomics Inc.		
*	AssetMark Financial				Class A	1,352,017	49,267
	Holdings Inc.	167,736	3,858	*	Doximity Inc. Class A	1,436,442	48,207
*	LendingTree Inc.	80,856	1,725	*	Neogen Corp.	3,057,231	46,562
*,1	Hagerty Inc. Class A	154,896	1,303	*	Axonics Inc.	737,233	46,099
		-	1,209,671	*	Ultragenyx		
Hea	alth Care (21.2%)		,,	*	Pharmaceutical Inc.	991,795	45,950
	Bio-Techne Corp.	2,335,433	193,561		1Life Healthcare Inc. Tandem Diabetes	2,737,226	45,739
*	Neurocrine				Care Inc.	957,321	43,032
	Biosciences Inc.	1,430,179	170,821	*	Oak Street Health Inc.	1,989,022	42,784
*	Sarepta Therapeutics Inc.	1,240,857	160,790	*	Denali Therapeutics Inc.	1,516,644	42,178
*	Repligen Corp.	826,296	139,900	*	Intellia Therapeutics Inc.	1,205,839	42,170
*	Exact Sciences Corp.	2,644,345	130,922	*	PTC Therapeutics Inc.	1,203,633	40,852
*	Penumbra Inc.	536,940	119,448	*			
*	Halozyme			*	Inari Medical Inc.	638,941	40,611
	Therapeutics Inc.	2,011,331	114,445		Amedisys Inc.	483,986	40,432
	Chemed Corp.	221,268	112,942	*	Insmed Inc.	2,017,390	40,307
*	Shockwave Medical Inc.	537,820	110,581		CONMED Corp.	453,981	40,241
*	Masimo Corp.	743,163	109,951	*	iRhythm		
*	Inspire Medical	.,	,		Technologies Inc.	425,850	39,889
	Systems Inc.	429,961	108,299	*	Guardant Health Inc.	1,448,989	39,412
	Bruker Corp.	1,531,615	104,686	*	Blueprint Medicines		
*	Novocure Ltd.	1,381,870	101,360		Corp.	891,048	39,037
*	Globus Medical Inc.	1,001,070	101,000	*	Beam Therapeutics Inc.	996,913	38,989
	Class A	1,151,612	85,530	*	Evolent Health Inc.		
*	Charles River	1,101,012	00,000		Class A	1,356,164	38,081
	Laboratories			*	Vir Biotechnology Inc.	1,486,463	37,622
	International Inc.	378,522	82,480	*	STAAR Surgical Co.	717,948	34,849
*	HealthEquity Inc.	1,258,139	77,552	*	Progyny Inc.	1,106,846	34,478
*	Exelixis Inc.	4,798,381	76,966	*	Omnicell Inc.	665,263	33,543
*	lonis	4,700,001	70,000	*	Azenta Inc.	558,851	32,536
	Pharmaceuticals Inc.	2,007,851	75,837	*	NuVasive Inc.	776,963	32,042
	Ensign Group Inc.	784,508	74,222	*	Signify Health Inc.	-,	- /-
*	Medpace Holdings Inc.	347,032	73,713		Class A	1,064,005	30,494
*	Apellis	347,032	75,715	*	Glaukos Corp.	675,551	29,508
	Pharmaceuticals Inc.	1,398,893	72,337	*	Cerevel Therapeutics	,	.,
*	LHC Group Inc.	438,363	70,879		Holdings Inc.	932,105	29,399
*	Option Care Health Inc.	2,301,359	69,248	*	AtriCure Inc.	658,636	29,230
*	Intra-Cellular	2,301,339	03,240	*,1	Ginkgo Bioworks	,	-,
	Therapies Inc.	1,268,612	67,135		Holdings Inc. Class A	17,164,563	29,008
*		2,444,908		*	ACADIA	, - ,	-,
*	Alkermes plc		63,885		Pharmaceuticals Inc.	1,810,656	28,826
*	QuidelOrtho Corp.	737,111	63,148	*	Sage Therapeutics Inc.	753,839	28,751
	Natera Inc.	1,541,814	61,935	*	Certara Inc.	1,785,079	28,686
Ĵ	Cytokinetics Inc.	1,338,005	61,307	*	Silk Road Medical Inc.	539,841	28,531
*	Arrowhead		00 707	*	REVOLUTION	000,011	20,001
	Pharmaceuticals Inc.	1,497,219	60,727		Medicines Inc.	1,191,397	28,379
	Merit Medical	040 700	F0 004	*	Corcept Therapeutics Inc.	1,364,200	27,707
	Systems Inc.	846,793	59,801	*	Amylyx	1,004,200	21,707
-	Integra LifeSciences	1 050 410	E0 000		Pharmaceuticals Inc.	741,034	27,381
*	Holdings Corp.	1,056,412	59,233	*	Relay Therapeutics Inc.	1,712,837	25,590
	Haemonetics Corp.	752,683	59,199	*	, ,	914,570	
*	ICU Medical Inc.	339,149	53,409	*	Surgery Partners Inc.		25,480
*	Lantheus Holdings Inc.	1,024,104	52,188	*	Veracyte Inc.	1,069,740	25,385
*	Teladoc Health Inc.	2,172,103	51,370		Pacira BioSciences Inc.	650,149	25,102
*	Amicus Therapeutics Inc.	4,181,718	51,059		agilon health Inc.	1,534,759	24,771
*	Vaxcyte Inc.	1,057,825	50,723	*	Harmony Biosciences Holdings Inc.	442,394	24,376

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	Ironwood			*	American Well Corp.		
	Pharmaceuticals Inc.				Class A	3,238,387	9,165
	Class A	1,945,695	24,107	*	CareDx Inc.	794,537	9,066
*	Maravai LifeSciences	, ,	•	*	Editas Medicine Inc.	,	-,
	Holdings Inc. Class A	1,659,118	23,742		Class A	1,021,007	9,056
*	Xencor Inc.	894,395	23,290	*	HealthStream Inc.	362,822	9,012
*	Arvinas Inc.	675,346	23,104	*	AnaptysBio Inc.	274,385	8,503
*	TG Therapeutics Inc.	1,941,214	22,965	*	Alector Inc.	920,676	8,498
*,1	PROCEPT BioRobotics			*	Health Catalyst Inc.	771,878	8,205
	Corp.	530,863	22,052	*	Agiliti Inc.	494,604	8,067
*	AdaptHealth Corp.			*	Rocket	,	-,
	Class A	1,099,571	21,134		Pharmaceuticals Inc.	408,222	7,989
*	FibroGen Inc.	1,255,049	20,106	*	Arcus Biosciences Inc.	349,247	7,222
*	Nevro Corp.	499,449	19,778	*	Lyell Immunopharma Inc.	2,029,742	7,043
*	Privia Health Group Inc.	847,538	19,248	*	Allogene		
*	Twist Bioscience Corp.	794,573	18,919		Therapeutics Inc.	1,070,381	6,733
*	CorVel Corp.	128,092	18,616	*,1	Invitae Corp.	3,596,814	6,690
*	Outset Medical Inc.	716,859	18,509	*	Inogen Inc.	323,147	6,369
*	SpringWorks			*,1	ImmunityBio Inc.	1,188,283	6,025
	Therapeutics Inc.	694,228	18,057	*	Nektar Therapeutics		
*	Mirati Therapeutics Inc.	385,960	17,488		Class A	2,650,510	5,990
*	Apollo Medical			*,1	Sana Biotechnology Inc.	1,415,544	5,591
	Holdings Inc.	589,183	17,434	*,1	LifeStance Health		
*	R1 RCM Inc.	1,545,496	16,923		Group Inc.	1,114,860	5,507
*	NeoGenomics Inc.	1,780,507	16,452	*	Cullinan Oncology Inc.	475,494	5,016
*,1	Warby Parker Inc. Class A	1,210,067	16,324	*	GoodRx Holdings Inc.		
*	BioCryst				Class A	1,040,091	4,847
	Pharmaceuticals Inc.	1,383,379	15,881	*,1	Butterfly Network Inc.	1,938,404	4,768
*	Alignment			*	Clover Health		
	Healthcare Inc.	1,250,498	14,706		Investments Corp.		
*	Adaptive Biotechnologies	1 010 114	14 500		Class A	5,125,080	4,764
*	Corp.	1,910,114	14,593		OPKO Health Inc.	3,131,439	3,914
*	Kymera Therapeutics Inc.	569,870	14,224	*,1	Erasca Inc.	907,156	3,910
	Supernus Pharmaceuticals Inc.	381,080	13,593	Ţ	Accolade Inc.	482,541	3,759
*,1	Novavax Inc.	1,277,240	13,130		Cano Health Inc.	2,540,596	3,481
*	REGENXBIO Inc.	578,204	13,130		Sangamo	1 004 557	2.240
*	Zentalis	370,204	13,114	*	Therapeutics Inc.	1,034,557	3,248
	Pharmaceuticals Inc.	635,207	12,793		PMV Pharmaceuticals Inc.	305,274	2,656
*	Fate Therapeutics Inc.	1,225,901	12,755	*,1	Gossamer Bio Inc.		2,520
*	Innoviva Inc.	931,641	12,344	*		1,161,084	
*	Treace Medical	331,041	12,044	*	Innovage Holding Corp.	301,659	2,166
	Concepts Inc.	535,355	12,308	*	Design Therapeutics Inc. Seer Inc. Class A	209,351	2,148
*	Cytek Biosciences Inc.	1,200,738	12,260	*		370,034	2,146
*	Sotera Health Co.	1,465,148	12,205	*	Pulmonx Corp.	250,215	2,109
*	Phreesia Inc.	370,281	11,982	*,1	Nuvation Bio Inc.	1,054,684	2,025
*	Verve Therapeutics Inc.	598,426	11,582	*	Prime Medicine Inc.	73,064	1,358
*	Agios	550,420	11,560	-	Atea	270 600	1 240
	Pharmaceuticals Inc.	407,806	11,451	*	Pharmaceuticals Inc.	278,689	1,340
*	Recursion	407,000	11,401		OmniAb Inc.	311,272	1,121
	Pharmaceuticals Inc.			*,1 *,1	P3 Health Partners Inc.	339,681	625
	Class A	1,482,893	11,433	~,1	SmileDirectClub Inc.	015 705	207
*	Hims & Hers Health Inc.	1,775,027	11,378	*	Class A Instil Bio Inc.	815,725	287
*,1	EQRx Inc.	4,348,411	10,697	*,2		434,959	274
*	Theravance	. ,	,	,∠	OmniAb Inc. (Earnout Shares)	90,640	
	Biopharma Inc.	850,004	9,537		Gilai Goj	50,040_	
							5,626,043

			Market				Market
		Shares	Value• (\$000)			Shares	Value• (\$000)
Ind	ustrials (19.0%)				Woodward Inc.	445,103	43,001
*	Fair Isaac Corp.	371,603	222,434		MKS Instruments Inc.	495,279	41,965
	Nordson Corp.	766,033	182,101	*	Shift4 Payments Inc.		
	Toro Co.	1,550,216	175,484		Class A	749,711	41,931
	Graco Inc.	2,507,120	168,629		Forward Air Corp.	395,881	41,524
*	Axon Enterprise Inc.	1,006,116	166,945	*,1	TriNet Group Inc.	556,081	37,702
*	WillScot Mobile Mini			*	Mercury Systems Inc.	820,425	36,706
	Holdings Corp.	3,107,767	140,378	*	ACI Worldwide Inc.	1,571,646	36,148
	Genpact Ltd.	2,725,879	126,263	*	Itron Inc.	672,927	34,084
	Watsco Inc.	494,937	123,437	*	Flywire Corp.	1,322,715	32,367
*	Paylocity Holding Corp.	621,363	120,706	*	AZEK Co. Inc. Class A	1,586,683	32,241
	Cognex Corp.	2,445,064	115,187	*	Verra Mobility Corp.		
	Lennox International Inc.	474,461	113,505		Class A	2,233,863	30,894
	A O Smith Corp.	1,887,383	108,034		Comfort Systems		
*	WEX Inc.	648,646	106,151		USA Inc.	266,444	30,662
	Jack Henry &	,	•	*	AeroVironment Inc.	353,864	30,312
	Associates Inc.	542,414	95,226		Installed Building		
	Curtiss-Wright Corp.	569,934	95,173		Products Inc.	340,998	29,189
	Advanced Drainage			*,1	Affirm Holdings Inc.		
	Systems Inc.	1,109,637	90,957		Class A	2,915,971	28,197
	Landstar System Inc.	534,405	87,055	*	Air Transport Services		
*	Saia Inc.	393,869	82,586		Group Inc.	1,083,737	28,155
	Littelfuse Inc.	368,382	81,118	*	Masonite International	000 444	00 774
*	ExlService Holdings Inc.	467,311	79,176		Corp.	332,144	26,774
	BWX Technologies Inc.	1,357,108	78,821		Lindsay Corp.	164,152	26,732
*	GXO Logistics Inc.	1,766,002	75,391		Helios Technologies Inc.	485,525	26,432
	Exponent Inc.	753,514	74,666		Mueller Water	0.005.000	05.000
*	TopBuild Corp.	475,720	74,445	*	Products Inc. Class A	2,325,800	25,026
*	Chart Industries Inc.	633,400	72,987		Evo Payments Inc.	716 600	04.050
	Eagle Materials Inc.	547,782	72,773		Class A	716,689	24,253
*	Trex Co. Inc.	1,633,475	69,145	*	Federal Signal Corp.	452,575	21,031
*	AMN Healthcare		•	*	Payoneer Global Inc.	3,635,882	19,888
	Services Inc.	644,984	66,317	*	Core & Main Inc. Class A	1,022,358	19,742
	Maximus Inc.	904,221	66,307		Dycom Industries Inc.	208,319	19,499
*	Euronet Worldwide Inc.	701,101	66,170		Kratos Defense &	1 060 100	10 200
*	Aerojet Rocketdyne			*	Security Solutions Inc. Vicor Corp.	1,869,108	19,289
	Holdings Inc.	1,138,675	63,686		Tennant Co.	335,512	18,034
	Insperity Inc.	536,017	60,892	*		275,939	16,990
*	ASGN Inc.	705,633	57,495	*	Remitly Global Inc.	1,266,259	14,499
*	ATI Inc.	1,925,247	57,488	*	Hayward Holdings Inc.	1,410,557	13,259
	Simpson Manufacturing			*,1	Legalzoom.com Inc.	1,429,520	11,064
	Co. Inc.	633,838	56,196	, '	Nikola Corp.	4,975,131	10,746
	Berry Global Group Inc.	923,266	55,793		Enerpac Tool Group Corp. Class A	122 065	10 742
*	Middleby Corp.	372,988	49,943		FTAI Aviation Ltd.	422,065	10,742
	Herc Holdings Inc.	370,188	48,706	*,1		626,467	10,725
	AAON Inc.	633,397	47,707	,,	PureCycle Technologies Inc.	1,577,081	10,661
	Badger Meter Inc.	435,496	47,482	*,1	Virgin Galactic	1,377,001	10,001
*	Generac Holdings Inc.	471,661	47,477	,.	Holdings Inc.	3,056,423	10,636
	Franklin Electric Co. Inc.	586,114	46,743	*	Gibraltar Industries Inc.	229,750	10,541
	Armstrong World	•		*	Enovix Corp.	815,973	10,151
	Industries Inc.	679,453	46,604	*	Janus International	010,073	10,101
*	Bloom Energy Corp.				Group Inc.	979,033	9,320
	Class A	2,403,531	45,956	*	FARO Technologies Inc.	280,815	8,259
*	Marqeta Inc. Class A	7,300,135	44,604	*	Hillman Solutions Corp.	1,010,764	7,288
	John Bean Technologies			*	TaskUS Inc. Class A	408,679	6,907
	Corp.	474,523	43,338	*	Aurora Innovation Inc.	5,504,760	6,661
					, ta. ord minovation inc.	3,00 +,700	5,001

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
* 0:					Haiti Casus Inc		
	press plc	233,544	6,448		Uniti Group Inc.	3,519,804	19,465
,	Port Inc. ester Research Inc.	350,280	6,077		St. Joe Co.	476,177 2,773,246	18,404
	o Labs Inc.	169,627	6,066		Paramount Group Inc. CareTrust REIT Inc.		16,473
		201,329	5,140			720,047	13,378
	nardo DRS Inc. ktop Metal Inc.	378,242	4,834	1	Marcus & Millichap Inc. eXp World Holdings Inc.	379,613	13,078
D 001	iss A	3,521,977	4,790		Safehold Inc.	1,132,808	12,551
	on Holdings Corp.	2,001,520	4,684		Universal Health Realty	369,083	10,563
,	ling Check Corp.	292,910	4,531		Income Trust	184,266	8,795
	man-Rupp Co.	167,396	4,331	*	Opendoor	104,200	6,795
	mple Holdings Inc.	107,330	4,200		Technologies Inc.	7,530,034	8,735
	iss A	2,047,321	3,358	*	Redfin Corp.	1,533,601	6,502
	Disco Inc.	352,225	2,226		Alexander's Inc.	15,499	3,411
	oak Holdings Corp.	002,220	2,220	*,1	WeWork Inc.	2,102,295	3,006
	iss A	332,262	1,917		VVCVVOIR IIIC.	2,102,200	
	mentus Holdings Inc.	,	, -				1,671,641
	ss A	234,370	1,877	Tecl	hnology (18.6%)		
* Micr	ovast Holdings Inc.	1,129,923	1,729	*	PTC Inc.	1,572,967	188,819
	oal Business Travel		•		Entegris Inc.	2,217,802	145,466
Gro	oup I	201,016	1,357	*	Ceridian HCM	0 474 000	100.010
		-	5,047,227		Holding Inc.	2,171,630	139,310
Pool Ecto	ite (6.3%)		5,047,227		Lattice Semiconductor	2 020 100	100 000
	ity LifeStyle			*	Corp. Wolfspeed Inc.	2,039,189	132,303
	perties Inc.	2,491,994	160,983	*		1,748,482	120,715
	ford Industrial	2,401,004	100,000	*	Dynatrace Inc.	2,998,609	114,847
	alty Inc.	2,730,562	149,198	*	Pure Storage Inc. Class A Manhattan	4,225,869	113,084
	eSmart	3,341,732	134,505		Associates Inc.	020 200	112 706
	erican Homes 4 Rent	0,011,702	10 1,000	*		928,388	112,706
	ss A	4,199,576	126,575	*	Coupa Software Inc.	1,130,117	89,471
	ericold Realty	,,-	-,-	*	Nutanix Inc. Class A	3,424,124	89,198
	st Inc.	4,009,002	113,495	*	Aspen Technology Inc.	431,790	88,690
Heal	Ithcare Realty		•	*	Guidewire Software Inc.	1,218,798	76,248
	st Inc. Class A	5,664,799	109,161		Smartsheet Inc. Class A	1,846,921	72,695
Hos	t Hotels &				National Instruments	1 042 022	71 604
Res	sorts Inc.	5,319,561	85,379	*	Corp.	1,942,933	71,694
Spiri	t Realty Capital Inc.	2,078,252	82,985	*	Five9 Inc.	1,049,368	71,210
Kite	Realty Group Trust	3,261,876	68,662		Fabrinet	544,448	69,809
Rym	nan Hospitality				SPS Commerce Inc.	536,222	68,867
Pro	perties Inc.	779,786	63,771		Novanta Inc.	504,607	68,561
Lam	ar Advertising Co.				Universal Display Corp.	632,575	68,343
Cla	ss A	649,094	61,274	Ĵ	Tenable Holdings Inc.	1,674,657	63,888
Terre	eno Realty Corp.	1,075,464	61,162	-	Silicon Laboratories Inc.	470,533	63,837
Inde	pendence Realty				Dolby Laboratories Inc.	000 000	00.004
Tru	st Inc.	3,337,007	56,262		Class A	890,336	62,804
	ential Properties			_	Box Inc. Class A	2,010,925	62,600
	alty Trust Inc.	2,119,452	49,744	_	Coherent Corp.	1,754,783	61,593
Natio	onal Storage Affiliates				Vertiv Holdings Co.	4 400 070	01 074
Tru		1,285,834	46,444		Class A	4,492,976	61,374
	vative Industrial				Power Integrations Inc.	850,919	61,028
	perties Inc.	416,572	42,220		Workiva Inc. Class A	688,118	57,781
	non Armstrong			*	Qualys Inc.	508,669	57,088
	stainable			*	Elastic NV	1,092,389	56,258
	rastructure	1 22/ 010	30 303	*	Blackline Inc.	800,866	53,874
	pital Inc.	1,324,818	38,393	*	Envestnet Inc.	823,194	50,791
	y Realty Corp. ips Edison & Co. Inc.	870,622	33,667	*	Onto Innovation Inc.	736,891	50,175
	•	873,036	27,797	*	Gitlab Inc. Class A	1,100,685	50,015
nLJ	Lodging Trust	2,417,647	25,603				

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	MACOM Technology			*,1	MicroStrategy Inc.		
	Solutions Holdings Inc.	788,479	49,658		Class A	139,598	19,763
*	Diodes Inc.	642,623	48,929	*,1	Xometry Inc. Class A	597,771	19,266
*	Procore Technologies Inc.	1,027,330	48,469	*	Appian Corp. Class A	578,703	18,843
	Advanced Energy			*	E2open Parent		
	Industries Inc.	556,377	47,726		Holdings Inc.	3,139,670	18,430
*	New Relic Inc.	813,850	45,942		Shutterstock Inc.	347,920	18,342
*	RingCentral Inc. Class A	1,281,750	45,374	*	Upwork Inc.	1,754,169	18,314
*	Ambarella Inc.	543,372	44,681	*	Impinj Inc.	163,349	17,834
*	Dropbox Inc. Class A	1,982,170	44,361	*	Everbridge Inc.	592,447	17,525
*	Alteryx Inc. Class A	865,739	43,867	*,1	Samsara Inc. Class A	1,396,192	17,355
*	SentinelOne Inc. Class A	2,910,786	42,468	*	Qualtrics		
*	CommVault Systems Inc.	662,857	41,654		International Inc.		
*	IPG Photonics Corp.	435,120	41,193		Class A	1,615,730	16,771
*	Confluent Inc. Class A	1,831,408	40,731	*	Zeta Global Holdings		
*	Toast Inc. Class A	2,240,486	40,396		Corp. Class A	1,938,283	15,836
*	Sprout Social Inc. Class A	703,597	39,725	*	Credo Technology Group		45.005
*	Varonis Systems Inc.				Holding Ltd.	1,188,924	15,825
	Class B	1,559,407	37,332	*	PROS Holdings Inc.	605,307	14,685
*	Perficient Inc.	515,721	36,013	*	Schrodinger Inc.	782,976	14,634
*	MaxLinear Inc. Class A	1,053,033	35,750	*	ForgeRock Inc. Class A	636,523	14,494
*	Altair Engineering Inc.			*	Thoughtworks		44.000
	Class A	780,436	35,486		Holding Inc.	1,401,382	14,280
*	Alarm.com Holdings Inc.	706,254	34,945	*	Consensus Cloud	004 ==0	
*,1	Freshworks Inc. Class A	2,280,289	33,543		Solutions Inc.	264,773	14,234
*	Rogers Corp.	280,308	33,452	Ĵ	Veeco Instruments Inc.	762,928	14,175
	Clear Secure Inc. Class A	1,211,643	33,235	Ţ	Asana Inc. Class A	1,024,709	14,110
*	PagerDuty Inc.	1,195,641	31,756	Ţ	Braze Inc. Class A	505,476	13,789
*	KnowBe4 Inc. Class A	1,281,353	31,752	*	AppLovin Corp. Class A	1,303,588	13,727
*	Allegro	, - ,	, -	*	3D Systems Corp.	1,849,073	13,683
	MicroSystems Inc.	997,621	29,949	*	Fastly Inc. Class A	1,642,794	13,455
*	Appfolio Inc. Class A	273,881	28,862	*	Momentive Global Inc.	1,875,162	13,126
*	UiPath Inc. Class A	2,262,386	28,755	*	Duck Creek		
*	Rapid7 Inc.	838,945	28,507		Technologies Inc.	1,083,326	13,054
*	nCino Inc.	1,074,437	28,408	*	Planet Labs PBC	2,770,038	12,050
*	Semtech Corp.	947,288	27,178	*	Sprinklr Inc. Class A	1,428,514	11,671
*	Yelp Inc. Class A	987,536	26,999	*	Zuora Inc. Class A	1,834,758	11,669
*	DoubleVerify	,	/	*	Sumo Logic Inc.	1,409,233	11,415
	Holdings Inc.	1,229,279	26,995	*	LivePerson Inc.	1,061,988	10,769
*	Bumble Inc. Class A	1,257,021	26,460	*	Yext Inc.	1,465,567	9,570
*	HashiCorp Inc. Class A	934,738	25,556	*	Olo Inc. Class A	1,493,094	9,332
*	FormFactor Inc.	1,148,947	25,541	*	CEVA Inc.	326,868	8,361
*	DigitalOcean	.,,	/	*	Alkami Technology Inc.	543,027	7,923
	Holdings Inc.	933,920	23,787	*	Vertex Inc. Class A	542,208	7,867
*	Blackbaud Inc.	396,204	23,321	*	C3.ai Inc. Class A	700,799	7,842
*	SiTime Corp.	224,007	22,764	*	PubMatic Inc. Class A	608,547	7,796
*	Paycor HCM Inc.	913,342	22,349	*,1	IonQ Inc.	2,225,372	7,678
*	LiveRamp Holdings Inc.	942,840	22,100	*	BigCommerce		
*	Q2 Holdings Inc.	816,048	21,927		Holdings Inc.	874,823	7,646
*	Digital Turbine Inc.	1,395,807	21,272	*	Amplitude Inc. Class A	611,473	7,387
*	Jamf Holding Corp.	996,776	21,231	*	Squarespace Inc. Class A	330,127	7,319
	Pegasystems Inc.	613,675	21,012	*	Eventbrite Inc. Class A	1,202,742	7,048
*	JFrog Ltd.	973,609	20,767	*	Vimeo Inc.	1,981,006	6,795
*	Cargurus Inc. Class A	1,451,010	20,707	*	Bandwidth Inc. Class A	294,634	6,762
*	Magnite Inc.	1,892,715	20,023	*	nLight Inc.	638,632	6,476
	agriito irio.	.,002,710	20,077	*	EngageSmart Inc.	366,050	6,442

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	Definitive Healthcare			Util	ities (1.6%)		
	Corp. Class A	545,661	5,997	*	Clean Harbors Inc.	764,336	87,226
*	Intapp Inc.	233,449	5,822	*	Sunrun Inc.	3,013,116	72,375
*	Cvent Holding Corp.			*	Evoqua Water		
	Class A	1,078,062	5,822		Technologies Corp.	1,812,996	71,795
*	Matterport Inc.	1,813,253	5,077		Ormat Technologies Inc.	708,842	61,301
*	SmartRent Inc. Class A	2,059,736	5,005	*	Casella Waste		
*	N-able Inc.	469,121	4,823		Systems Inc. Class A	754,285	59,822
*	NerdWallet Inc. Class A	501,411	4,814	*	Sunnova Energy		
*	AvePoint Inc.	1,038,656	4,269		International Inc.	1,456,545	26,232
*	SEMrush Holdings Inc.				California Water Service		
	Class A	453,251	3,689		Group	409,035	24,804
*	MediaAlpha Inc. Class A	351,401	3,496		Clearway Energy Inc.		
*	MeridianLink Inc.	239,124	3,283		Class C	620,203	19,766
*	EverCommerce Inc.	428,033	3,185		Clearway Energy Inc.	0.45,000	7057
*	Enfusion Inc. Class A	307,174	2,970		Class A	245,886	7,357
*	Blend Labs Inc. Class A	1,588,743	2,288	*,1	NuScale Power Corp.	288,642_	2,961
*	Nextdoor Holdings Inc.	806,356	1,661				433,639
*	Aeva Technologies Inc.	973,374	1,324	Tot	al Common Stocks		
*,1	Rumble Inc.	206,655	1,230		st \$26,584,714)		26,478,584
*	Telos Corp.	174,947	891	_			20,170,001
*	SecureWorks Corp.			len	nporary Cash Investments	(2.0%)	
	Class A	125,709	803		ney Market Fund (2.0%)		
*,1	Skillz Inc. Class A	1,177,580	596	3,4	Vanguard Market		
			4,930,106		Liquidity Fund, 4.334% (Cost \$541,077)	5,413,027	541,249
Tele	communications (1.8%)			_	(COSt \$541,077)	5,415,027	541,249
*	Ciena Corp.	2,204,951	112,408		al Investments (101.8%)		
	Cable One Inc.	86,492	61,570	(Co	st \$27,125,791)		27,019,833
*	Calix Inc.	827,919	56,654	Oth	er Assets and		
*	Lumentum Holdings Inc.	964,496	50,318	Lial	oilities—Net (-1.8%)		(486,852)
*	Iridium Communications			Net	: Assets (100%)		26,532,981
	Inc.	841,921	43,275	1401	- A33013 (10070)		20,332,301
	Cogent Communications			Cost	is in \$000.		
	Holdings Inc.	644,020	36,761		ee Note A in Notes to Financial St	atements.	
*	Viasat Inc.	1,069,863	33,861	* N	on-income-producing security.		
	ADTRAN Holdings Inc.	1,037,083	19,487		cludes partial security positions o		-dealers. The
*	Infinera Corp.	2,771,662	18,681		tal value of securities on loan is \$		
*	Globalstar Inc.	10,690,603	14,218		ecurity value determined using sig	ınificant unobse	rvable
	ATN International Inc.	163,772	7,420		puts.		
*	WideOpenWest Inc.	780,422	7,110		filiated money market fund availa		
*	Gogo Inc.	472,069	6,968		nd certain trusts and accounts ma	naged by Vangu	ard. Hate
*	8x8 Inc.	1,574,771	6,803		own is the 7-day yield.	aired far '	ioo on I
*,1	fuboTV Inc.	1,376,901	2,396		ollateral of \$491,605,000 was rec		ies on Ioan.
			477,930	H	EIT—Real Estate Investment Trus	l.	

#### Derivative Financial Instruments Outstanding as of Period End

#### **Futures Contracts**

1 414.00 00.11.4010				
				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini Russell 2000 Index	March 2023	274	24,261	144

#### Over-the-Counter Total Return Swaps

			Notional	Floating Interest Rate Received	Value and Unrealized	Value and Unrealized
	Termination		Amount	(Paid) <sup>1</sup>	Appreciation	(Depreciation)
Reference Entity	Date	Counterparty	(\$000)	(%)	(\$000)	(\$000)
ACI Worldwide Inc.	8/31/23	BANA	732	(4.515)	71	_
ACI Worldwide Inc.	8/31/23	BANA	1,400	(4.515)	136	_
Elastic NV	8/31/23	BANA	2,448	(4.115)	_	(396)
Fisker Inc. Class A	1/31/23	GSI	5,648	(4.329)	160	_
Middleby Corp.	8/31/23	BANA	4,037	(4.115)	_	(301)
Novocure Ltd.	8/31/23	BANA	13,831	(4.115)	_	(674)
Virtu Financial Inc. Class A	8/31/23	BANA	776	(4.515)	_	(56)
Wolfspeed Inc.	8/31/23	BANA	9,092	(4.115)	_	(2,218)
					367	(3,645)

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

GSI-Goldman Sachs International.

# Statement of Assets and Liabilities

As of December 31, 2022

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value <sup>1</sup>	
Unaffiliated Issuers (Cost \$26,584,714)	26,478,584
Affiliated Issuers (Cost \$541,077)	541,249
Total Investments in Securities	27,019,833
Investment in Vanguard	1,022
Cash	14,751
Cash Collateral Pledged—Futures Contracts	2,140
Cash Collateral Pledged—Over-the-Counter Swap Contracts	3,710
Receivables for Investment Securities Sold	373
Receivables for Accrued Income	17,628
Receivables for Capital Shares Issued	22,123
Unrealized Appreciation—Over-the-Counter Swap Contracts	367
Total Assets	27,081,947
Liabilities	
Payables for Investment Securities Purchased	13,483
Collateral for Securities on Loan	491,605
Payables for Capital Shares Redeemed	39,319
Payables to Vanguard	807
Variation Margin Payable—Futures Contracts	107
Unrealized Depreciation—Over-the-Counter Swap Contracts	3,645
Total Liabilities	548,966
Net Assets	26,532,981

1 Includes \$449,801,000 of securities on loan.

#### Statement of Assets and Liabilities (continued)

At December 31, 2022, net assets consisted of:	
(\$000s, except shares, footnotes, and per-share amounts)	Amount
Paid-in Capital	31,090,058
Total Distributable Earnings (Loss)	(4,557,077)
Net Assets	26,532,981
Investor Shares – Net Assets	
Applicable to 1,423,433 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	80,258
Net Asset Value Per Share—Investor Shares	\$56.38
ETF Shares – Net Assets	
Applicable to 60,021,609 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	12,035,937
Net Asset Value Per Share—ETF Shares	\$200.53
Admiral Shares—Net Assets	
Applicable to 162,850,856 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	11,481,828
Net Asset Value Per Share—Admiral Shares	\$70.51
Institutional Shares—Net Assets	
Applicable to 51,980,752 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	2,934,958
Net Asset Value Per Share—Institutional Shares	\$56.46

## Statement of Operations

Year Ended December 31, 2022 (\$000)Investment Income Income Dividends 199,649 Interest1 1,091 31.241 Securities Lending-Net Total Income 231.981 Expenses The Vanguard Group—Note B Investment Advisory Services 1.095 Management and Administrative—Investor Shares 172 Management and Administrative—ETF Shares 7.186 Management and Administrative—Admiral Shares 7,514 1,483 Management and Administrative—Institutional Shares Marketing and Distribution—Investor Shares 7 Marketing and Distribution-ETF Shares 668 Marketing and Distribution—Admiral Shares 564 Marketing and Distribution—Institutional Shares 98 Custodian Fees 351 Auditing Fees 35 Shareholders' Reports—Investor Shares 1 Shareholders' Reports-ETF Shares 555 Shareholders' Reports—Admiral Shares 194 Shareholders' Reports—Institutional Shares 104 Trustees' Fees and Expenses 11 Other Expenses 21 Total Expenses 20.059 Expenses Paid Indirectly (48)Net Expenses 20,011 Net Investment Income 211.970 Realized Net Gain (Loss) Investment Securities Sold1,2 (602,477)**Futures Contracts** (3,553)Swap Contracts (25.325)Realized Net Gain (Loss) (631,355)

#### Statement of Operations (continued)

Statement of Operations (continued)	
	Year Ended December 31, 2022
	(\$000)
Change in Unrealized Appreciation (Depreciation)	
Investment Securities <sup>1</sup>	(10,015,059)
Futures Contracts	(2,118)
Swap Contracts	2,586
Change in Unrealized Appreciation (Depreciation)	(10,014,591)
Net Increase (Decrease) in Net Assets Resulting from Operations	(10,433,976)

<sup>1</sup> Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$1,067,000, (\$65,000), less than \$1,000, and \$109,000, respectively. Purchases and sales are for temporary cash investment purposes.

<sup>2</sup> Includes \$1,749,314,000 of net gain (loss) resulting from in-kind redemptions.

# Statement of Changes in Net Assets

	Year Ended	December 31,
	2022 (\$000)	2021 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	211,970	167,870
Realized Net Gain (Loss)	(631,355)	4,271,918
Change in Unrealized Appreciation (Depreciation)	(10,014,591)	(2,566,787)
Net Increase (Decrease) in Net Assets Resulting from Operations	(10,433,976)	1,873,001
Distributions		
Investor Shares	(378)	(401)
ETF Shares	(65,152)	(57,438)
Admiral Shares	(62,927)	(61,028)
Institutional Shares	(16,002)	(14,238)
Total Distributions	(144,459)	(133,105)
Capital Share Transactions		
Investor Shares	(30,485)	(71,356)
ETF Shares	383,979	1,267,326
Admiral Shares	(400,974)	(412,500)
Institutional Shares	230,883	(65,864)
Net Increase (Decrease) from Capital Share Transactions	183,403	717,606
Total Increase (Decrease)	(10,395,032)	2,457,502
Net Assets		
Beginning of Period	36,928,013	34,470,511
End of Period	26,532,981	36,928,013

#### Investor Shares

For a Share Outstanding			Year	Ended Dec	ember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$79.21	\$75.20	\$55.89	\$42.36	\$45.24
Investment Operations					
Net Investment Income <sup>1</sup>	.371	.257	.241	.178	.274
Net Realized and Unrealized Gain (Loss) on Investments	(22.943)	3.938	19.331	13.617	(2.879)
Total from Investment Operations	(22.572)	4.195	19.572	13.795	(2.605)
Distributions					
Dividends from Net Investment Income	(.258)	(.185)	(.262)	(.265)	(.275)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(.258)	(.185)	(.262)	(.265)	(.275)
Net Asset Value, End of Period	\$56.38	\$79.21	\$75.20	\$55.89	\$42.36
Total Return <sup>2</sup>	-28.49%	5.58%	35.12%	32.60%	-5.80%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$80	\$149	\$209	\$171	\$1,461
Ratio of Total Expenses to Average Net Assets	0.19%³	0.19%	0.19%	0.19%	0.19%
Ratio of Net Investment Income to Average Net Assets	0.60%	0.32%	0.42%	0.35%	0.58%
Portfolio Turnover Rate <sup>4</sup>	24%	29%	24%	18%	22%
1011111					

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.19%.

<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.

#### **ETF Shares**

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$281.61	\$267.36	\$198.68	\$150.57	\$160.81
Investment Operations					
Net Investment Income <sup>1</sup>	1.623	1.291	1.129	1.175	1.214
Net Realized and Unrealized Gain (Loss) on Investments	(81.603)	13.975	68.729	48.077	(10.263)
Total from Investment Operations	(79.980)	15.266	69.858	49.252	(9.049)
Distributions					
Dividends from Net Investment Income	(1.100)	(1.016)	(1.178)	(1.142)	(1.191)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(1.100)	(1.016)	(1.178)	(1.142)	(1.191)
Net Asset Value, End of Period	\$200.53	\$281.61	\$267.36	\$198.68	\$150.57
Total Return	-28.40%	5.71%	35.29%	32.75%	-5.68%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$12,036	\$16,379	\$14,436	\$9,833	\$7,286
Ratio of Total Expenses to Average Net Assets	0.07%2	0.07%	0.07%	0.07%	0.07%
Ratio of Net Investment Income to Average Net Assets	0.74%	0.45%	0.55%	0.64%	0.70%
Portfolio Turnover Rate <sup>3</sup>	24%	29%	24%	18%	22%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.07%.

<sup>3</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 Year Ended December					ember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$99.01	\$94.02	\$69.87	\$52.95	\$56.55
Investment Operations					
Net Investment Income <sup>1</sup>	.568	.448	.392	.419	.423
Net Realized and Unrealized Gain (Loss) on Investments	(28.682)	4.899	24.172	16.902	(3.605)
Total from Investment Operations	(28.114)	5.347	24.564	17.321	(3.182)
Distributions					
Dividends from Net Investment Income	(.386)	(.357)	(.414)	(.401)	(.418)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(.386)	(.357)	(.414)	(.401)	(.418)
Net Asset Value, End of Period	\$70.51	\$99.01	\$94.02	\$69.87	\$52.95
Total Return <sup>2</sup>	-28.39%	5.69%	35.30%	32.76%	-5.68%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$11,482	\$16,594	\$16,149	\$12,717	\$8,560
Ratio of Total Expenses to Average Net Assets	0.07%3	0.07%	0.07%	0.07%	0.07%
Ratio of Net Investment Income to Average Net Assets	0.73%	0.45%	0.54%	0.65%	0.70%
Portfolio Turnover Rate <sup>4</sup>	24%	29%	24%	18%	22%
4.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.07%.

<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.

#### Institutional Shares

For a Share Outstanding	Year Ended Decemb				
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$79.29	\$75.29	\$55.95	\$42.40	\$45.29
Investment Operations					
Net Investment Income <sup>1</sup>	.465	.367	.319	.327	.335
Net Realized and Unrealized Gain (Loss) on Investments	(22.979)	3.927	19.358	13.550	(2.886)
Total from Investment Operations	(22.514)	4.294	19.677	13.877	(2.551)
Distributions					
Dividends from Net Investment Income	(.316)	(.294)	(.337)	(.327)	(.339)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(.316)	(.294)	(.337)	(.327)	(.339)
Net Asset Value, End of Period	\$56.46	\$79.29	\$75.29	\$55.95	\$42.40
Total Return	-28.39%	5.70%	35.31%	32.77%	-5.69%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$2,935	\$3,805	\$3,676	\$3,218	\$2,858
Ratio of Total Expenses to Average Net Assets	0.06%2	0.06%	0.06%	0.06%	0.06%
Ratio of Net Investment Income to Average Net Assets	0.75%	0.46%	0.55%	0.64%	0.71%
Portfolio Turnover Rate <sup>3</sup>	24%	29%	24%	18%	22%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.06%.

<sup>3</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 Small-Cap Growth Index Fund is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. The fund offers four classes of shares: Investor Shares, ETF Shares, Admiral Shares, and Institutional 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.

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.

- 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.
- 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, 2022, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

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

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

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

During the year ended December 31, 2022, 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 \$4.4 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, 2022, the fund did not utilize the credit facilities or the Interfund Lending Program.

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. 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, 2022, the fund had contributed to Vanguard capital in the amount of \$1,022,000, representing less than 0.01% of the fund's net assets and 0.41% 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, 2022, custodian fee offset arrangements reduced the fund's expenses by \$48,000 (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, 2022, based on the inputs used to value them:

	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)	Total (\$000)
Investments	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,,,,,	,,,,,,
Assets				
Common Stocks	26,478,584	_	_	26,478,584
Temporary Cash Investments	541,249	_	_	541,249
Total	27,019,833	_	_	27,019,833
Derivative Financial Instruments				
Assets				
Futures Contracts <sup>1</sup>	144	_	_	144
Swap Contracts	_	367	_	367
Total	144	367	_	511
Liabilities				
Swap Contracts	_	3,645	_	3,645

<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 and swap agreements were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	1,749,624
Total Distributable Earnings (Loss)	(1,749,624)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to the deferral of losses from wash sales; the recognition of unrealized gains or losses from certain derivative contracts; and the deferral of qualified late-year losses. 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	_
Undistributed Long-Term Gains	_
Capital Loss Carryforwards	(4,278,431)
Qualified Late-Year Losses	(1,226)
Net Unrealized Gains (Losses)	(277,420)

The tax character of distributions paid was as follows:

	Year Ended D	Year Ended December 31,	
	2022	2021	
	Amount (\$000)	Amount (\$000)	
Ordinary Income*	144,459	133,105	
Long-Term Capital Gains	_	_	
Total	144,459	133,105	

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

As of December 31, 2022, 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	27,297,253
Gross Unrealized Appreciation	5,919,335
Gross Unrealized Depreciation	(6,196,755)
Net Unrealized Appreciation (Depreciation)	(277,420)

F. During the year ended December 31, 2022, the fund purchased \$11,270,337,000 of investment securities and sold \$10,954,177,000 of investment securities, other than temporary cash investments. Purchases and sales include \$4,027,613,000 and \$4,022,443,000, 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, 2022, such purchases were \$1,950,933,000 and sales were \$1,122,164,000, resulting in net realized loss of \$489,636,000; 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 31				
	2022			2021	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
Investor Shares					
Issued	11,003	172	27,595	344	
Issued in Lieu of Cash Distributions	378	7	401	5	
Redeemed	(41,866)	(639)	(99,352)	(1,245)	
Net Increase (Decrease)—Investor Shares	(30,485)	(460)	(71,356)	(896)	

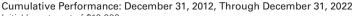
	Year Ended December				
		2022		2021	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)	
ETF Shares					
Issued	4,457,870	20,609	8,232,657	28,868	
Issued in Lieu of Cash Distributions	_	_	_	_	
Redeemed	(4,073,891)	(18,750)	(6,965,331)	(24,700)	
Net Increase (Decrease)—ETF Shares	383,979	1,859	1,267,326	4,168	
Admiral Shares					
Issued	1,685,175	21,680	2,933,136	29,431	
Issued in Lieu of Cash Distributions	56,168	800	54,667	553	
Redeemed	(2,142,317)	(27,226)	(3,400,303)	(34,161)	
Net Increase (Decrease)—Admiral Shares	(400,974)	(4,746)	(412,500)	(4,177)	
Institutional Shares					
Issued	652,486	10,669	721,080	9,029	
Issued in Lieu of Cash Distributions	14,928	265	13,272	168	
Redeemed	(436,531)	(6,944)	(800,216)	(10,031)	
Net Increase (Decrease)—Institutional Shares	230,883	3,990	(65,864)	(834)	

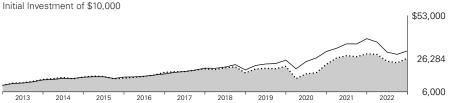
H. Management has determined that no events or transactions occurred subsequent to December 31, 2022, that would require recognition or disclosure in these financial statements.

## Small-Cap Value 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.





#### Average Annual Total Returns Periods Ended December 31, 2022

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Value Index Fund Investor Shares	-9.43%	5.66%	10.15%	\$26,284
······ Spliced Small-Cap Value Index	-9.27	5.78	10.30	26,652
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Spliced Small-Cap Value Index: MSCI US Small Cap Value Index through April 16, 2013; CRSP US Small Cap Value Index thereafter.

	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Value Index Fund ETF Shares Net Asset Value	-9.29%	5.79%	10.28%	\$26,602
Small-Cap Value Index Fund ETF Shares Market Price	-9.32	5.77	10.27	26,577
Spliced Small-Cap Value Index	-9.27	5.78	10.30	26,652
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

Average Annual Total Returns Periods Ended December 31, 2022

	renous End	_		
	One Year	Five Years	Ten Years	Final Value of a \$10,000 Investment
Small-Cap Value Index Fund Admiral Shares	-9.31%	5.79%	10.28%	\$26,607
Spliced Small-Cap Value Index	-9.27	5.78	10.30	26,652
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	31,151

	One Year	Five Years	Ten Years	Final Value of a \$5,000,000 Investment
Small-Cap Value Index Fund Institutional Shares	-9.31%	5.80%	10.29%	\$13,315,478
Spliced Small-Cap Value Index	-9.27	5.78	10.30	13,326,150
Dow Jones U.S. Total Stock Market Float Adjusted Index	-19.53	8.65	12.03	15,575,514

### Cumulative Returns of ETF Shares: December 31, 2012, Through December 31, 2022

	One Year	Five Years	Ten Years
Small-Cap Value Index Fund ETF Shares Market Price	-9.32%	32.39%	165.77%
Small-Cap Value Index Fund ETF Shares Net Asset Value	-9.29	32.47	166.02
Spliced Small-Cap Value Index	-9.27	32.43	166.52

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, 2022

Basic Materials	5.8%
Consumer Discretionary	14.0
Consumer Staples	3.5
Energy	5.8
Financials	22.2
Health Care	5.5
Industrials	21.8
Real Estate	9.4
Technology	5.6
Telecommunications	1.1
Utilities	5.3

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, 2022

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

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
Com	mon Stocks (99.8%)				Mativ Holdings Inc.	990,557	20,703
	: Materials (5.7%)				GrafTech International		,
Dasit	Steel Dynamics Inc.	3,007,085	293,792		Ltd.	3,469,588	16,515
	Reliance Steel &	0,007,000	200,702	*	Coeur Mining Inc.	4,558,415	15,316
	Aluminum Co.	1,058,137	214,209	*	Ecovyst Inc.	1,526,433	13,524
*	Cleveland-Cliffs Inc.	9,290,659	149,673		Schnitzer Steel		
	Alcoa Corp.	3,189,981	145,048		Industries Inc. Class A	434,023	13,303
	Olin Corp.	2,469,275	130,723		Koppers Holdings Inc.	357,926	10,093
	Valvoline Inc.	3,148,196	102,789				2,654,838
	Commercial Metals Co.		102,195	Cons	sumer Discretionary (14.0	)%)	
	United States Steel	_,,	,		Aramark	4,664,935	192,848
	Corp.	3,801,273	95,222		Service Corp.		
	Ashland Inc.	878,588	94,475		International	2,634,296	182,135
*	Univar Solutions Inc.	2,941,670	93,545		Tapestry Inc.	4,344,311	165,431
	Huntsman Corp.	3,117,006	85,655	*	BJ's Wholesale Club		
	UFP Industries Inc.	1,055,706	83,665		Holdings Inc.	2,423,725	160,354
	Timken Co.	1,180,328	83,414	*	Wynn Resorts Ltd.	1,736,160	143,181
	Chemours Co.	2,720,889	83,314		Williams-Sonoma Inc.	1,199,944	137,898
	Element Solutions Inc.	3,928,047	71,451	*	Capri Holdings Ltd.	2,363,394	135,470
	Cabot Corp.	1,015,551	67,879		Dick's Sporting		
	Hecla Mining Co.	10,383,948	57,735		Goods Inc.	1,024,957	123,292
	Mueller Industries Inc.	973,944	57,463		Interpublic Group of	0 = 00 000	440.070
	Avient Corp.	1,639,619	55,354		Cos. Inc.	3,502,622	116,672
	Sensient Technologies				Mattel Inc.	6,389,492	113,989
	Corp.	757,913	55,267		Murphy USA Inc.	366,592	102,477
	Boise Cascade Co.	711,210	48,839		H&R Block Inc.	2,802,915	102,334
	Innospec Inc.	446,484	45,925		Lithia Motors Inc. Class A	492,889	100,914
	Stepan Co.	380,708	40,530		Macy's Inc.	4,885,733	100,914
*	Arconic Corp.	1,829,682	38,716		Polaris Inc.	992,686	100,890
	Scotts Miracle-Gro Co.	749,202	36,404	*	Light & Wonder Inc.	1,688,893	98,969
	Minerals				Harley-Davidson Inc.	2,371,993	98,675
	Technologies Inc.	585,046	35,524	*	Alaska Air Group Inc.	2,286,759	98,193
	Materion Corp.	370,099	32,387		Toll Brothers Inc.	1,941,092	96,899
	Carpenter Technology	070 404			U-Haul Holding Co.	1,712,593	94,158
	Corp.	873,424	32,264	*,1	Norwegian Cruise Line	1,712,595	34,136
	Westlake Corp.	287,406	29,471	,.	Holdings Ltd.	7,597,374	92,992
	Tronox Holdings plc	2,088,645	28,635		New York Times Co.	1,001,011	02,002
	Worthington Industries Inc.	E27772	26 722		Class A	2,819,915	91,534
	Compass Minerals	537,773	26,733		Newell Brands Inc.	6,711,170	87,782
	International Inc.	616,056	25,258	*,1	GameStop Corp.	, ,	- , -=
	Kaiser Aluminum Corp.	287,384	21,830		Class A	4,667,394	86,160
	naisor Amminum Corp.	207,004	21,000				

		Shares	Market Value• (\$000)			Shares	Market Value* (\$000)
	TEGNA Inc.	4,026,028	85,312	*	PowerSchool		
	Marriott Vacations	1,020,020	00,012		Holdings Inc. Class A	1,438,155	33,193
	Worldwide Corp.	621,806	83,689		MDC Holdings Inc.	1,027,918	32,482
	PVH Corp.	1,175,867	83,005	*	ODP Corp.	702,029	31,970
	Bath & Body Works Inc.	1,955,756	82,416		Bloomin' Brands Inc.	1,582,852	31,847
	,			*	Under Armour Inc.	1,562,652	31,047
*	Leggett & Platt Inc.	2,390,250	77,038		Class C	3,523,324	31,428
	AutoNation Inc.	714,990	76,718				
	Academy Sports &	1 407507	75 500		Strategic Education Inc.	396,797	31,077
	Outdoors Inc.	1,437,537	75,528		John Wiley & Sons Inc. Class A	757446	20.242
	American Airlines	E 0E7E10	74 500			757,446	30,343
	Group Inc.	5,857,513	74,508		MillerKnoll Inc. Cheesecake	1,362,223	28,620
	Asbury Automotive	200.054	71 500			000 600	27027
	Group Inc.	399,054	71,530		Factory Inc.	880,692	27,927
	Ralph Lauren Corp.	666 000	70.464		Nordstrom Inc.	1,727,474	27,881
	Class A	666,833	70,464	_	Adtalem Global	777667	07007
	Wendy's Co.	3,072,572	69,532		Education Inc.	777,667	27,607
	Whirlpool Corp.	491,217	69,488		National Vision	711 000	07570
	Thor Industries Inc.	919,444	69,409		Holdings Inc.	711,368	27,573
	Lear Corp.	532,791	66,077		PriceSmart Inc.	445,758	27,093
	Foot Locker Inc.	1,682,106	63,567		Knowles Corp.	1,639,559	26,922
*	Avis Budget Group Inc.	373,765	61,271	*	Urban Outfitters Inc.	1,080,166	25,762
*	Meritage Homes Corp.	659,353	60,792		Laureate Education Inc.		
*	Taylor Morrison Home				Class A	2,671,570	25,701
	Corp. Class A	1,855,754	56,322	*	KAR Auction		
	Signet Jewelers Ltd.	792,066	53,861		Services Inc.	1,963,458	25,623
	Kohl's Corp.	2,102,824	53,096	*	Central Garden & Pet		
*	Coty Inc. Class A	6,130,507	52,477		Co. Class A	711,297	25,464
*	Goodyear Tire & Rubber				Oxford Industries Inc.	272,594	25,400
	Co.	5,099,730	51,762	*	Brinker International Inc.	793,851	25,332
	Travel + Leisure Co.	1,392,156	50,675	*	elf Beauty Inc.	453,342	25,070
	Carter's Inc.	653,613	48,766		Buckle Inc.	541,857	24,573
	Gap Inc.	4,277,863	48,254		Acushnet Holdings		
*	Helen of Troy Ltd.	432,523	47,971		Corp.	569,603	24,185
*	Victoria's Secret & Co.	1,318,311	47,169	*	Sally Beauty		
	Group 1 Automotive Inc.	249,741	45,046		Holdings Inc.	1,929,899	24,162
	'	249,741	45,046	1	Dillard's Inc. Class A	71,128	22,989
	Penske Automotive Group Inc.	385,637	44,321		Steven Madden Ltd.	631,860	20,194
	KB Home	1,388,751	44,232		HNI Corp.	708,485	20,142
		1,300,701	44,232		Scholastic Corp.	493,770	19,484
	American Eagle Outfitters Inc.	3,040,931	42,451	*	Abercrombie & Fitch	,	
*	Hertz Global	3,040,931	42,401		Co. Class A	847,012	19,405
	Holdings Inc.	2,709,321	41,696		Rent-A-Center Inc.	853,118	19,238
	Hanesbrands Inc.				Spirit Airlines Inc.	981,303	19,116
		6,291,162	40,012		Red Rock Resorts Inc.	001,000	.0,0
	Kontoor Brands Inc.	1,000,002	39,990		Class A	444,555	17,787
	Graham Holdings Co.	OF 717	20.707		La-Z-Boy Inc.	775,908	17,706
*,1	Class B	65,717	39,707		Dine Brands Global Inc.	268,541	17,766
~,1	AMC Entertainment	0.500.470	20 017	*			
	Holdings Inc. Class A	9,586,479	39,017		Cinemark Holdings Inc.	1,956,311	16,942
	Rush Enterprises Inc.	740 740	20.020		Sturm Ruger & Co. Inc.	318,501	16,123
	Class A	742,710	38,829		Matthews International	E10 017	15 706
	Cracker Barrel Old	200 007	27005	*	Corp. Class A	518,917	15,796
*	Country Store Inc.	399,667	37,865	-	Cars.com Inc.	1,140,784	15,709
*	JetBlue Airways Corp.	5,839,111	37,837		Wolverine World	1 410 000	15 510
	Dana Inc.	2,326,000	35,192		Wide Inc.	1,419,882	15,519
*	Under Armour Inc.	0.004.5		*	American Axle &		
	Class A	3,391,641	34,459		Manufacturing	1 061 004	15 040
*	Tri Pointe Homes Inc.	1,819,472	33,824		Holdings Inc.	1,961,984	15,343

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
*	PROG Holdings Inc.	902,017	15,235	*	Performance Food		
*	SkyWest Inc.	912,277	15,062		Group Co.	2,806,667	163,881
*	EW Scripps Co. Class A	1,096,915	14,468	*	US Foods Holding Corp.		124,144
	Sonic Automotive Inc.				Ingredion Inc.	1,122,822	109,958
	Class A	287,650	14,173		Flowers Foods Inc.	3,616,280	103,932
	Monro Inc.	283,563	12,817		Molson Coors Beverage		00.657
*	Krispy Kreme Inc.	1,207,509	12,462	*	Co. Class B Sprouts Farmers	1,623,773	83,657
	Vista Outdoor Inc.	509,955	12,428		Market Inc.	1,908,409	61,775
	iHeartMedia Inc. Class A	1,975,915	12,112	*	Hostess Brands Inc.	1,000,400	01,773
*	Lions Gate	1,575,515	12,112		Class A	2,413,825	54,166
	Entertainment Corp.			*	TreeHouse Foods Inc.	1,011,102	49,928
	Class B	2,227,943	12,098	*	Grocery Outlet Holding		
*	GoPro Inc. Class A	2,337,878	11,643		Corp.	1,578,450	46,075
	Sinclair Broadcast				Spectrum Brands		
	Group Inc. Class A	744,176	11,542		Holdings Inc.	735,353	44,798
*	Stride Inc.	368,510	11,527		Energizer Holdings Inc.	1,285,348	43,123
	Steelcase Inc. Class A	1,581,007	11,178	*	Post Holdings Inc.	475,444	42,914
*	BJ's Restaurants Inc.	400,659	10,569		United Natural	1 000 000	41.007
	Interface Inc. Class A	1,048,800	10,352		Foods Inc.	1,080,008	41,807
	Guess? Inc.	490,727	10,153		Edgewell Personal Care Co.	927,461	35,744
	G-III Apparel Group Ltd.	727,696	9,977		Nu Skin Enterprises Inc.		00,744
-	Qurate Retail Inc. Class A	E 06E 022	0.007		Class A	846,426	35,685
	U-Haul Holding Co.	6,065,823 163,694	9,887 9,853		Lancaster Colony Corp.	173,858	34,302
*	Sleep Number Corp.	376,873	9,791		Reynolds Consumer		
*	Hawaiian Holdings Inc.	880,500	9,034		Products Inc.	945,946	28,360
	Designer Brands Inc.	000,000	3,004		Vector Group Ltd.	2,372,213	28,134
	Class A	916,740	8,966	*	Herbalife Nutrition Ltd.	1,764,663	26,258
*	AMC Networks Inc.		-,	*	Hain Celestial		
	Class A	511,161	8,010		Group Inc.	1,610,242	26,054
*	Udemy Inc.	700,606	7,391		Weis Markets Inc.	290,976	23,944
1	Big Lots Inc.	495,678	7,287		Universal Corp.	420,567	22,210
	Caleres Inc.	312,261	6,957		Andersons Inc.	543,621	19,021
*	Clear Channel Outdoor				Fresh Del Monte Produce Inc.	690,108	18,074
	Holdings Inc.	6,406,021	6,726		Seaboard Corp.	4,199	15,852
-	Lions Gate			*	Pilgrim's Pride Corp.	639,451	15,174
	Entertainment Corp. Class A	1,126,998	6,435	1	B&G Foods Inc.	1,292,068	14,407
	Rush Enterprises Inc.	1,120,550	0,433	*	Duckhorn Portfolio Inc.	830,693	13,765
	Class B	108,534	6,107		ACCO Brands Corp.	1,614,382	9,024
*	Central Garden & Pet	,	,	*	USANA Health	, - ,	-,-
	Co.	157,893	5,913		Sciences Inc.	103,893	5,527
*	Genesco Inc.	111,908	5,150	*,1	BRC Inc. Class A	370,489	2,264
*,1	Bowlero Corp.	346,367	4,669			-	1,613,411
*	Children's Place Inc.	111,551	4,063	Ener	gy (5.8%)		.,,.
*,1	Cricut Inc. Class A	393,275	3,646		APA Corp.	5,796,524	270,582
	Global Industrial Co.	153,262	3,606		Ovintiv Inc.	4,475,890	226,972
	Smith & Wesson	410 707	0.500		Chesapeake Energy		•
* 1	Brands Inc.	413,767	3,592		Corp.	2,294,673	216,548
*,1 *	SES Al Corp.	1,112,656	3,505	*	Antero Resources Corp.		142,535
1	Zumiez Inc.	140,367	3,052	*	First Solar Inc.	912,745	136,720
*	Weber Inc. Class A Cardlytics Inc.	167,446	1,348		HF Sinclair Corp.	2,533,231	131,449
	Cardiytics inc.	142,061	821	*	Southwestern Energy		
			6,468,364		Co.	19,896,421	116,394
Cons	sumer Staples (3.5%)	0 =0:			Murphy Oil Corp.	2,662,564	114,517
	Bunge Ltd.	2,700,747	269,454		Range Resources Corp.	4,138,524	103,546

		Shares	Market Value• (\$000)		Shares	Market Value• (\$000)
	Chord Energy Corp.	712,615	97,493	Commerce		
	DT Midstream Inc.	1,744,340	96,392	Bancshares Inc.	2,033,483	138,419
	PBF Energy Inc. Class A	2,137,202	87,155	First Citizens	2,000,.00	100,110
	NOV Inc.	3,540,074	73,952	BancShares Inc.		
	Patterson-UTI	3,340,074	73,332	Class A	182,514	138,411
	Energy Inc.	3,909,030	65,828	Carlyle Group Inc.	4,588,130	136,910
	Antero Midstream Corp.		60,504	Zions Bancorp NA	2,697,468	132,608
	California Resources	0,007,100	00,00	Signature Bank	1,134,530	130,721
	Corp.	1,324,614	57,634	SEI Investments Co.	2,187,448	127,528
*	Peabody Energy Corp.	2,075,495	54,835	Unum Group	3,051,521	125,204
*	Transocean Ltd.	11,713,462	53,413	Old Republic		
	Equitrans Midstream	,,	,	International Corp.	4,937,514	119,241
	Corp.	7,802,634	52,278	Assurant Inc.	952,499	119,120
*	CNX Resources Corp.	3,091,043	52,053	Brown & Brown Inc.	2,042,529	116,363
	Arcosa Inc.	871,790	47,373	Prosperity		
	Arch Resources Inc.	326,019	46,552	Bancshares Inc.	1,563,615	113,644
	Helmerich & Payne Inc.	854,846	42,375	Voya Financial Inc.	1,751,912	107,725
	SM Energy Co.	1,106,952	38,555	Affiliated Managers		
	Delek US Holdings Inc.	1,256,456	33,924	Group Inc.	679,149	107,598
	Warrior Met Coal Inc.	931,262	32,259	AGNC Investment Corp.	10,306,101	106,668
	Permian Resources	301,202	02,200	Stifel Financial Corp.	1,820,388	106,256
	Corp. Class A	3,121,168	29,339	SouthState Corp.	1,364,727	104,211
	World Fuel Services	0,121,100	20,000	RLI Corp.	777,219	102,026
	Corp.	1,060,527	28,984	New York Community		
*	NOW Inc.	1,991,019	25,286	Bancorp Inc.	11,651,587	100,204
	Archrock Inc.	2,805,635	25,195	Jefferies Financial		
*	ProPetro Holding Corp.	1,753,828	18,187	Group Inc.	2,890,035	99,070
*	MRC Global Inc.	1,507,311	17,455	Glacier Bancorp Inc.	1,996,809	98,682
*	NexTier Oilfield	1,507,511	17,400	United Bankshares Inc.	2,427,756	98,300
	Solutions Inc.	1,881,295	17,383	Starwood Property		
	CVR Energy Inc.	543,717	17,040	Trust Inc.	5,302,753	97,199
	Core Laboratories NV	836,008	16,946	Selective Insurance		
*,1	Fluence Energy Inc.	000,000	10,540	Group Inc.	1,086,718	96,294
	Class A	727,281	12,473	Globe Life Inc.	789,163	95,134
*	ProFrac Holding Corp.	, , , , , , , , , , , , , , , , , , , ,	.2, ., 0	Old National Bancorp	5,280,320	94,940
	Class A	389,153	9,807	Primerica Inc.	665,252	94,346
	Sitio Royalties Corp.	330,299	9,529	Synovus Financial Corp.	2,491,358	93,550
1	Crescent Energy Co.	,	-,	First American Financial		
	Class A	696,428	8,350	Corp.	1,773,442	92,822
*	SunPower Corp.	391,871	7,066	Wintrust Financial Corp.	1,095,546	92,596
*	OPAL Fuels Inc. Class A	33,903	247	Valley National Bancorp	7,759,814	87,764
		· –	0.005.405	Popular Inc.	1,310,595	86,919
F:	-:-1- (00 00/)		2,695,125	Lincoln National Corp.	2,746,039	84,358
Finar	ncials (22.2%)	0.070.000	007110	First Financial		
	First Horizon Corp.	9,678,060	237,112	Bankshares Inc.	2,443,115	84,043
	American Financial Group Inc.	1 204 005	170 124	FNB Corp.	6,324,335	82,533
		1,304,805	179,124	Cadence Bank	3,289,389	81,116
	Reinsurance Group of America Inc.	1,204,979	171,215	Bank OZK	2,013,535	80,662
	East West Bancorp Inc.	2,541,138	167,461	Home BancShares Inc.	3,493,557	79,618
	· ·			Hanover Insurance		
	Comerica Inc. Webster Financial Corp.	2,360,946	157,829	Group Inc.	577,025	77,973
	Invesco Ltd.	3,137,218	148,516	SLM Corp.	4,510,786	74,879
	RenaissanceRe	8,199,434	147,508	Axis Capital Holdings		
		707001	1/15 150	Ltd.	1,373,820	74,420
	Holdings Ltd. Cullen/Frost	787,891	145,153	Essent Group Ltd.	1,844,822	71,727
	Bankers Inc.	1,043,318	139,492	Hancock Whitney Corp.	1,467,719	71,023
	Darikers inc.	1,0-0,010	100,402			

		-	Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	American Equity Investment Life				Simmons First National Corp. Class A	2,174,716	46,930
	Holding Co. Umpqua Holdings Corp.	1,545,202 3,915,965	70,492 69,900		Jackson Financial Inc. Class A	1,347,384	46,875
	Rithm Capital Corp. MGIC Investment Corp.	8,538,710 5,355,097	69,761 69,616		International Bancshares Corp.	1,007,862	46,120
	Independent Bank Corp.	822,900	69,477	*	Mr Cooper Group Inc.	1,145,002	45,949
	Lazard Ltd. Class A	1,931,476	66,964		Walker & Dunlop Inc.	565,419	44,374
	OneMain Holdings Inc.	1,983,025	66,055		Moelis & Co. Class A	1,153,276	44,251
	Assured Guaranty Ltd.	1,027,573	63,977		First Merchants Corp.	1,073,879	44,147
*	Brighthouse	4 0 4 0 0 0 4	00.004		BOK Financial Corp.	424,389	44,047
	Financial Inc. White Mountains	1,246,361	63,901		Enstar Group Ltd. Columbia Banking	187,398	43,296
	Insurance Group Ltd.	44,116	62,395		System Inc.	1,417,888	42,721
	Blackstone Mortgage	0.007005	04.070		First Bancorp	3,328,363	42,337
	Trust Inc. Class A	2,927,265	61,970		Piper Sandler Cos.	305,460	39,768
	CVB Financial Corp.	2,394,513	61,659		Washington Federal Inc.	1,177,468	39,504
	United Community Banks Inc.	1,818,442	61,463		First Financial Bancorp	1,624,428	39,360
	Evercore Inc. Class A	560,202	61,403	*	Axos Financial Inc.	1,027,669	39,278
	Community Bank	500,202	01,107		Houlihan Lokey Inc.	440.200	20.100
	System Inc.	968,794	60,986		Class A	449,390 616,426	39,169
	First Hawaiian Inc.	2,301,986	59,944		Banner Corp. Arbor Realty Trust Inc.		38,958
	Associated Banc-Corp	2,575,275	59,463		Towne Bank	2,937,757	38,749
	Ally Financial Inc.	2,423,545	59,256		Independent Bank	1,245,626	38,415
	UMB Financial Corp.	696,829	58,199		Group Inc.	631,161	37,920
	FirstCash Holdings Inc.	668,058	58,061		WesBanco Inc.	1,013,206	37,468
	Kemper Corp.	1,151,781	56,668		Park National Corp.	263,890	37,143
	Janus Henderson Group				Renasant Corp.	958,347	36,024
	plc	2,389,412	56,199		Artisan Partners Asset		
	Ameris Bancorp Bank of Hawaii Corp.	1,187,835	55,995		Management Inc.	1 162 220	24 540
	Western Alliance	721,394	55,951		Class A Trustmark Corp.	1,163,238 989,054	34,548 34,528
	Bancorp	932,723	55,553		Northwest	909,004	34,320
	Federated Hermes Inc.				Bancshares Inc.	2,289,451	32,007
	Class B First Interstate	1,524,166	55,342	1	NBT Bancorp Inc. Claros Mortgage	733,742	31,859
	BancSystem Inc.				Trust Inc.	2,120,582	31,194
	Class A	1,412,275	54,584		TPG Inc. Class A	1,087,778	30,273
*	Texas Capital Bancshares Inc.	899,633	54,257		Navient Corp.	1,833,709	30,165
	Pacific Premier	,			BancFirst Corp. National Bank Holdings	325,936	28,741
	Bancorp Inc.	1,713,022	54,063		Corp. Class A	677,820	28,516
	Radian Group Inc.	2,831,060	53,988	*	Cannae Holdings Inc.	1,336,300	27,595
	Cathay General Bancorp	1,274,555	51,989		Horace Mann Educators		
	Fulton Financial Corp.	3,019,744	50,822		Corp.	737,371	27,556
	WSFS Financial Corp.	1,110,341	50,343		Provident Financial		
	Eastern Bankshares Inc.	2,866,829	49,453		Services Inc.	1,289,290	27,539
*	PacWest Bancorp	2,123,966	48,745		Apollo Commercial Real	0.505.000	07077
	Genworth Financial Inc. Class A	8,949,143	47,341		Estate Finance Inc.	2,535,082	27,277
	Atlantic Union	0,343,143	47,341		Westamerica Bancorp	460,927	27,199
	Bankshares Corp.	1,347,005	47,334		Hope Bancorp Inc.	2,046,477	26,215
	BankUnited Inc.	1,393,094	47,323		Eagle Bancorp Inc.	575,474	25,361
	CNO Financial	.,000,001	.,,020		Two Harbors Investment Corp.	1,592,659	25,116
	Group Inc.	2,062,644	47,131		Hilltop Holdings Inc.	815,163	24,463
	•				top . rotalingo into.	5.5,100	, 100

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
	Virtus Investment				BrightSpire Capital Inc.		
	Partners Inc.	123,863	23,712		Class A	1,628,046	10,143
	City Holding Co.	254,435	23,685		National Western Life	.,,.	,
	OFG Bancorp	857,537	23,634		Group Inc. Class A	34,072	9,574
	Berkshire Hills	007,007	20,00	*	SiriusPoint Ltd.	1,607,992	9,487
	Bancorp Inc.	771,164	23,058		Central Pacific Financial		
	PennyMac Financial				Corp.	466,366	9,458
	Services Inc.	406,305	23,021		Invesco Mortgage		
	Chimera Investment				Capital Inc.	637,395	8,114
	Corp.	4,178,550	22,982		Broadmark Realty		
	S&T Bancorp Inc.	668,053	22,834		Capital Inc.	2,269,774	8,080
*	PRA Group Inc.	667,561	22,550		TPG RE Finance		
	First Commonwealth				Trust Inc.	1,116,647	7,582
	Financial Corp.	1,599,392	22,344		Victory Capital		= 004
	BGC Partners Inc.				Holdings Inc. Class A	216,204	5,801
	Class A	5,857,673	22,083		GCM Grosvenor Inc.	704 705	F 707
	Brookline Bancorp Inc.	1,525,399	21,584	1	Class A	761,765	5,797
	Safety Insurance				UWM Holdings Corp.	1 502 160	4.072
	Group Inc.	252,410	21,268	*,1	Class A	1,502,169	4,972
	Employers Holdings Inc.	490,333	21,148		World Acceptance Corp.	73,330	4,835
*	Blucora Inc.	820,175	20,939		AssetMark Financial	199,800	4 505
	Ladder Capital Corp.			*,1	Holdings Inc.		4,595
	Class A	2,053,983	20,622	, '	Hagerty Inc. Class A	185,146	1,557
	Capitol Federal	0.054.004	00.070		loanDepot Inc. Class A	909,480	1,501
4	Financial Inc.	2,354,881	20,370		Associated Capital Group Inc. Class A	20 222	1 260
1	Compass Diversified	1 100 500	00 170	*,1	Bakkt Holdings Inc.	30,223	1,269
	Holdings	1,106,539	20,172	,.	Bakkt Holdings IIIC.	1,041,784_	1,240
	PennyMac Mortgage	1 000 000				1	0,260,895
	Investment Trust	1,603,383	19,866	Heal	th Care (5.5%)		
*	Nelnet Inc. Class A	214,511	19,866 19,467	Heal *	United Therapeutics		
*	Nelnet Inc. Class A Encore Capital	214,511	19,467	Heal *	United Therapeutics Corp.	821,700	228,507
*	Nelnet Inc. Class A Encore Capital Group Inc.		,	Heal * *	United Therapeutics Corp. Jazz Pharmaceuticals		
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty	214,511 400,536	19,467 19,202	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc	821,700 1,078,428	228,507 171,804
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc.	214,511 400,536 1,487,060	19,467 19,202 19,183	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co.	1,078,428	171,804
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc.	214,511 400,536 1,487,060 1,835,369	19,467 19,202 19,183 18,078	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc.	1,078,428 1,640,219	171,804 135,023
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp.	214,511 400,536 1,487,060 1,835,369 499,122	19,467 19,202 19,183 18,078 17,070	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co.	1,078,428 1,640,219 4,585,885	171,804 135,023 128,084
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp.	214,511 400,536 1,487,060 1,835,369 499,122 972,904	19,467 19,202 19,183 18,078 17,070 16,997	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc.	1,078,428 1,640,219	171,804 135,023
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp.	214,511 400,536 1,487,060 1,835,369 499,122	19,467 19,202 19,183 18,078 17,070	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health	1,078,428 1,640,219 4,585,885 3,875,123	171,804 135,023 128,084 123,384
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730	19,467 19,202 19,183 18,078 17,070 16,997 16,674	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp.	1,078,428 1,640,219 4,585,885	171,804 135,023 128,084
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp.	214,511 400,536 1,487,060 1,835,369 499,122 972,904	19,467 19,202 19,183 18,078 17,070 16,997	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100	171,804 135,023 128,084 123,384 107,604
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365	171,804 135,023 128,084 123,384 107,604 104,485
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208	Heal * * * * * *	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530	171,804 135,023 128,084 123,384 107,604 104,485 98,974
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208	Heal * * * * * *	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387
*	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109
* * *	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387
* * * * * * * * * * * * * * * * * * * *	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491 231,254	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059 67,121
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc. WisdomTree Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459 2,245,621	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816 13,413 12,239	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer Healthcare Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc. WisdomTree Inc. Northfield Bancorp Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459 2,245,621	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816 13,413 12,239	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer Healthcare Inc. Axsome	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491 231,254 892,837	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059 67,121 55,892
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc. WisdomTree Inc. Northfield Bancorp Inc. KKR Real Estate	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459 2,245,621 775,187	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816 13,413 12,239 12,194	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer Healthcare Inc. Axsome Therapeutics Inc.	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491 231,254	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059 67,121
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc. WisdomTree Inc. KKR Real Estate Finance Trust Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459 2,245,621 775,187 872,159	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816 13,413 12,239 12,194	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer Healthcare Inc. Axsome	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491 231,254 892,837	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059 67,121 55,892
	Nelnet Inc. Class A Encore Capital Group Inc. Franklin BSP Realty Trust Inc. MFA Financial Inc. Mercury General Corp. ProAssurance Corp. LendingClub Corp. Tompkins Financial Corp. Heartland Financial USA Inc. Columbia Financial Inc. Argo Group International Holdings Ltd. Enact Holdings Inc. Ambac Financial Group Inc. Redwood Trust Inc. ARMOUR Residential REIT Inc. WisdomTree Inc. Northfield Bancorp Inc. KKR Real Estate Finance Trust Inc. United Fire Group Inc.	214,511 400,536 1,487,060 1,835,369 499,122 972,904 1,894,730 208,919 325,244 691,434 568,805 587,233 810,765 2,043,823 2,382,459 2,245,621 775,187 872,159 431,575	19,467 19,202 19,183 18,078 17,070 16,997 16,674 16,208 15,163 14,949 14,704 14,164 14,140 13,816 13,413 12,239 12,194 12,175 11,808	Heal	United Therapeutics Corp. Jazz Pharmaceuticals plc Acadia Healthcare Co. Inc. Organon & Co. DENTSPLY SIRONA Inc. Encompass Health Corp. Elanco Animal Health Inc. Envista Holdings Corp. Karuna Therapeutics Inc. Tenet Healthcare Corp. Perrigo Co. plc Universal Health Services Inc. Class B Premier Inc. Class A Syneos Health Inc. Madrigal Pharmaceuticals Inc. Prestige Consumer Healthcare Inc. Axsome Therapeutics Inc. Select Medical Holdings	1,078,428 1,640,219 4,585,885 3,875,123 1,799,100 8,550,365 2,939,530 495,607 1,949,362 2,427,338 549,430 2,141,243 1,855,491 231,254 892,837 626,354	171,804 135,023 128,084 123,384 107,604 104,485 98,974 97,387 95,109 82,748 77,409 74,901 68,059 67,121 55,892 48,311

		Shares	Market Value* (\$000)			Shares	Market Value• (\$000)
*	Enovis Corp.	829,833	44,413	*	ALX Oncology		
	· ·				Holdings Inc.	163,221	1,840
*	Patterson Cos. Inc.	1,572,298	44,072	*	Stoke Therapeutics Inc.	195,420	1,804
_	Integer Holdings Corp.	597,322	40,893	*	·		
Ĵ	Azenta Inc.	676,285	39,373	*	Allovir Inc.	334,359	1,715
*	DaVita Inc.	446,834	33,365		Atea	227660	1 604
*	Pacific Biosciences of			* 1	Pharmaceuticals Inc.	337,660	1,624
	California Inc.	3,668,873	30,011	*,1 *	Prime Medicine Inc.	86,870	1,614
*	agilon health Inc.	1,856,348	29,961		OmniAb Inc.	377,308	1,358
	Embecta Corp.	1,042,726	26,371	*,1,2	Zogenix Inc. CVR	265,295	531
*	Meridian Bioscience Inc.	790,176	26,242	*,1	Synergy		
*	IVERIC bio Inc.	1,208,875	25,882		Pharmaceuticals LLC	1,169,882	_
*	Owens & Minor Inc.	1,305,719	25,501	*,2	OmniAb Inc. (Earnout		
*	Avanos Medical Inc.	838,325	22,685		Shares)	107,162	_
*	Mirati Therapeutics Inc.	467,205	21,169				2,540,380
*	Pediatrix Medical	107,200	21,100	Indu	strials (21.8%)		2,0 10,000
	Group Inc.	1,422,798	21,143	maa	IDEX Corp.	1,359,756	310,473
*	Myriad Genetics Inc.	1,387,902	20,138		Howmet Aerospace Inc.	6,712,935	264,557
*	Ligand	1,007,002	20,100		Booz Allen Hamilton	0,712,930	204,007
	Pharmaceuticals Inc.	289,367	19,330		Holding Corp. Class A	2,383,904	249,166
*	Reata				RPM International Inc.	2,327,528	226,818
	Pharmaceuticals Inc.				Carlisle Cos. Inc.	932,388	219,717
	Class A	486,236	18,472		AECOM	2,499,732	212,302
*	NextGen Healthcare Inc.	975,069	18,312	*	Builders FirstSource Inc.		172,154
*	lovance				Allegion plc	1,583,766	166,707
	Biotherapeutics Inc.	2,703,386	17,275		Huntington Ingalls	1,303,700	100,707
*	Supernus				Industries Inc.	719,416	165,955
	Pharmaceuticals Inc.	463,785	16,543				
*	Immunovant Inc.	931,657	16,537		AGCO Corp.	1,143,208	158,552
	Healthcare Services				Lincoln Electric	1,040,958	150 400
	Group Inc.	1,335,707	16,028		Holdings Inc.	1,040,956	150,408
*	Varex Imaging Corp.	722,981	14,677		Knight-Swift		
	National HealthCare				Transportation	2 752 272	1// 252
	Corp.	235,142	13,991		Holdings Inc. Class A	2,752,373	144,252
*	Agios	,	-,		Owens Corning	1,684,926	143,724
	Pharmaceuticals Inc.	495,275	13,907		Regal Rexnord Corp.	1,192,631	143,092
*	Bridgebio Pharma Inc.	1,586,505	12,089		Tetra Tech Inc.	955,196	138,685
*	Enhabit Inc.	849,826	11,184		Robert Half		
*	23andMe Holding Co.	4,911,772	10,609		International Inc.	1,858,307	137,199
*	Emergent	4,511,772	10,003		Pentair plc	2,965,746	133,399
	BioSolutions Inc.	809,462	9,560		Sealed Air Corp.	2,608,035	130,089
*	Day One	000,402	3,300		Donaldson Co. Inc.	2,207,848	129,976
	Biopharmaceuticals				AptarGroup Inc.	1,177,017	129,448
	Inc.	430,951	9,274		EMCOR Group Inc.	859,161	127,250
*	Brookdale Senior	430,331	5,274		Valmont Industries Inc.	384,617	127,181
	Living Inc.	3,198,805	8.733		Graphic Packaging		
*	Kiniksa Pharmaceuticals	3,130,003	0,733		Holding Co.	5,537,025	123,199
	Ltd. Class A	560,300	8,393		ITT Inc.	1,491,008	120,921
*		252,436			nVent Electric plc	3,003,346	115,539
	Nuvalent Inc. Class A		7,518	*	WESCO	0,000,010	110,000
_	Multiplan Corp.	6,337,492	7,288		International Inc.	916,651	114,765
_	Amneal	0 471 040	4.010		Hubbell Inc. Class B	484,106	113,610
	Pharmaceuticals Inc.	2,471,942	4,919		Sensata Technologies	404,100	110,010
	Phibro Animal Health	000 00:	4.040		Holding plc	2,757,693	111,356
*	Corp. Class A	366,324	4,912		MDU Resources	2,101,000	111,000
	OPKO Health Inc.	3,822,672	4,778		Group Inc.	3,666,225	111,233
*	NGM				Sonoco Products Co.		
	Biopharmaceuticals	010 007	4.007			1,758,056	106,732
	Inc.	810,207	4,067		Oshkosh Corp.	1,178,975	103,974

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
*	A 1: 0 : 0 :	Ondres	(ΦΟΟΟ)		MICOL		
	Axalta Coating Systems Ltd.	2.077240	101 202	*	MKS Instruments Inc.	599,667	50,810
*		3,977,340	101,303		SPX Technologies Inc.	773,914	50,807
	Mohawk Industries Inc.	973,633	99,525		Terex Corp.	1,156,111	49,389
	MSA Safety Inc.	671,370	96,805		Korn Ferry	962,380	48,716
	MasTec Inc.	1,128,411	96,287		Esab Corp.	1,028,977	48,280
	Acuity Brands Inc.	579,772	96,016		Hillenbrand Inc.	1,117,650	47,690
	Western Union Co.	6,962,170	95,869	*	Beacon Roofing		
	Brunswick Corp.	1,307,210	94,224		Supply Inc.	879,719	46,440
Ţ	FTI Consulting Inc.	589,571	93,624	*	O-I Glass Inc.	2,796,967	46,346
	Fluor Corp.	2,561,717	88,789		Moog Inc. Class A	517,634	45,428
	Applied Industrial	005.004	07040	*	Hub Group Inc. Class A	559,299	44,459
	Technologies Inc.	695,394	87,640		Otter Tail Corp.	750,578	44,066
	Crane Holdings Co.	860,419	86,429		McGrath RentCorp	439,562	43,402
	Atkore Inc.	716,025	81,212		Trinity Industries Inc.	1,467,599	43,397
	Silgan Holdings Inc.	1,488,450	77,161	*	Resideo		
	ManpowerGroup Inc.	911,508	75,847		Technologies Inc.	2,629,516	43,256
	Air Lease Corp. Class A	1,899,300	72,971		Encore Wire Corp.	314,161	43,216
	Triton International Ltd.	1,060,413	72,935		Brink's Co.	795,569	42,730
	Flowserve Corp.	2,356,290	72,291		Matson Inc.	681,151	42,579
	Watts Water			*	Alight Inc. Class A	5,023,164	41,994
	Technologies Inc.	101 000	71 000		Werner Enterprises Inc.	1,025,604	41,291
	Class A	491,920	71,933		ESCO Technologies Inc.	466,098	40,802
	Ryder System Inc.	860,687	71,928		EnPro Industries Inc.	375,061	40,765
	Altra Industrial Motion	1 174 044	70.000	*	GMS Inc.	764,553	38,075
*	Corp.	1,174,944	70,203		EVERTEC Inc.	1,175,498	38,063
	Kirby Corp.	1,079,942	69,494		Brady Corp. Class A	791,304	37,270
	Allison Transmission Holdings Inc.	1,667,471	69,367		Comfort Systems		
	Louisiana-Pacific Corp.	1,163,319	68,868		USA Inc.	322,359	37,097
	HB Fuller Co.			*	RXO Inc.	2,075,444	35,698
		961,166	68,839		Barnes Group Inc.	866,108	35,380
	Berry Global Group Inc.	1,118,986	67,620		Kennametal Inc.	1,452,672	34,951
	GATX Corp. Fortune Brands	634,592	67,483		Bread Financial		
	Innovations Inc.	1,163,362	66,440		Holdings Inc.	898,801	33,849
	Maxar Technologies Inc.	1,103,302	66,076		Griffon Corp.	925,914	33,138
	MSC Industrial Direct	1,277,070	00,070		Greif Inc. Class A	439,118	29,447
	Co. Inc. Class A	808,721	66,072		ArcBest Corp.	418,252	29,294
*	XPO Inc.	1,971,673	65,637		Granite		
*	Middleby Corp.	485,725	65,039		Construction Inc.	788,394	27,649
*	API Group Corp.	3,373,702	63,459	*	AAR Corp.	606,415	27,228
*	Summit Materials Inc.	3,373,702	05,455	*	Huron Consulting	050 077	00.004
	Class A	2,135,154	60,617		Group Inc.	359,377	26,091
	ADT Inc.	6,193,400	56,174		H&E Equipment	EEC 400	05.000
	Spirit AeroSystems	0,100,100	00,171	*	Services Inc.	556,428	25,262
	Holdings Inc. Class A	1,897,614	56,169		CoreCivic Inc.	2,072,965	23,963
	Belden Inc.	771,739	55,488		Dycom Industries Inc.	253,107	23,691
	Albany International	,,,,,,	00, .00		Standex International	016.076	22 120
	Corp. Class A	560,709	55,280	*	Corp.	216,076	22,128
	Vontier Corp.	2,848,437	55,060	*	OSI Systems Inc. AvidXchange	273,458	21,745
	EnerSys	736,091	54,353		Holdings Inc.	2,149,424	21,365
	Zurn Elkay Water	,	- 1,		Primoris Services Corp.		
	Solutions Corp.	2,564,378	54,237		· ·	957,541	21,008
	ABM Industries Inc.	1,192,659	52,978	*	TriMas Corp. Gates Industrial Corp.	756,604	20,988
	UniFirst Corp.	271,858	52,466		plc	1,782,291	20,336
	Woodward Inc.	538,755	52,049		Kforce Inc.	355,453	19,489
*	Atlas Air Worldwide	•			Greenbrier Cos. Inc.	561,486	18,827
	Holdings Inc.	511,387	51,548		Wabash National Corp.	821,131	18,558
					vabasii ivationai corp.	021,101	10,000

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	Apogee Enterprises Inc.	400,415	17,802	Real	Estate (9.4%)		
*,1	Rocket Lab USA Inc.	4,692,943	17,692		Kimco Realty Corp.	11,150,279	236,163
	AZZ Inc.	425,767	17,116		Gaming & Leisure		
	Astec Industries Inc.	409,490	16,650		Properties Inc.	4,410,672	229,752
	Schneider National Inc.				Life Storage Inc.	1,532,429	150,944
	Class B	685,147	16,032		Federal Realty	1 404 147	147007
* 4	TTEC Holdings Inc.	340,534	15,028		Investment Trust	1,464,147	147,937
*,1	Joby Aviation Inc.	4,483,909	15,021		National Retail Properties Inc.	3,222,383	147,456
	International Seaways Inc.	398,160	14,740		STORE Capital Corp.	4,586,919	147,450
*	Mirion Technologies Inc.	2,164,695	14,309	*	Jones Lang LaSalle Inc.	855,704	136,374
	Quanex Building	2,104,095	14,303		Brixmor Property	000,704	100,074
	Products Corp.	597,321	14,145		Group Inc.	5,407,166	122,580
*	JELD-WEN Holding Inc.	1,444,509	13,939		Medical Properties		
	Deluxe Corp.	777,695	13,205		Trust Inc.	10,781,323	120,104
	Heartland Express Inc.	854,081	13,102		Omega Healthcare		
	Enerpac Tool Group				Investors Inc.	4,222,094	118,008
	Corp. Class A	512,646	13,047		EastGroup	705 500	440045
	FTAI Aviation Ltd.	761,634	13,039		Properties Inc.	785,592	116,315
*	Proterra Inc.	3,456,356	13,030		First Industrial Realty Trust Inc.	2,382,270	114,968
*	Green Dot Corp. Class A	805,583	12,744		Agree Realty Corp.	1,596,924	113,270
*	Conduent Inc.	3,114,182	12,612		STAG Industrial Inc.	3,231,509	104,410
*	First Advantage Corp.	958,725	12,463		Regency Centers Corp.	1,542,599	96,412
*	Enovix Corp.	991,309	12,332		Apartment Income REIT		30,412
*	Thermon Group				Corp. Class A	2,729,394	93,646
	Holdings Inc.	603,717	12,123		Rayonier Inc.	2,639,886	87,011
	ZipRecruiter Inc. Class A	719,516	11,814		Lamar Advertising Co.	_,,	,
	Vivint Smart Home Inc.	961,773	11,445		Class A	786,642	74,259
*	Kaman Corp.	505,153	11,265		Cousins Properties Inc.	2,730,206	69,047
	TrueBlue Inc. Pitney Bowes Inc.	560,404 2,823,456	10,973 10,729		Vornado Realty Trust	3,112,416	64,769
	Kelly Services Inc.	2,023,430	10,729		PotlatchDeltic Corp.	1,456,341	64,064
	Class A	592,450	10,012		Physicians Realty Trust	4,115,294	59,548
*	Hillman Solutions Corp.	1,227,402	8,850		Apple Hospitality		
*	American Woodmark	.,==.,=	2,222		REIT Inc.	3,711,784	58,572
	Corp.	149,568	7,308		Highwoods	1 000 004	E2 067
	Pactiv Evergreen Inc.	641,154	7,283		Properties Inc.	1,896,604	53,067
	REV Group Inc.	534,803	6,749		Corporate Office Properties Trust	2,026,859	52,577
	National Presto				Sabra Health Care	2,020,000	02,011
	Industries Inc.	95,474	6,536		REIT Inc.	4,164,256	51,762
*	Proto Labs Inc.	244,480	6,242		EPR Properties	1,352,560	51,019
	Greif Inc. Class B	78,844	6,168		LXP Industrial Trust	4,971,005	49,810
*	Leonardo DRS Inc.	459,841	5,877		Broadstone Net		
*	Triumph Group Inc.	527,369	5,548		Lease Inc.	2,965,448	48,070
	BrightView	754 550	F 100		Douglas Emmett Inc.	3,010,806	47,209
	Holdings Inc.	754,553	5,199		Equity Commonwealth	1,874,173	46,798
	Gorman-Rupp Co.	199,955 416,331	5,123 3,913	*	Howard Hughes Corp.	610,182	46,630
	Kronos Worldwide Inc.	410,331	3,913		Park Hotels &		
	Hyster-Yale Materials Handling Inc.	154,050	3,899		Resorts Inc.	3,851,083	45,404
*	Advantage	10 1,000	0,000		SITE Centers Corp.	3,256,695	44,487
	Solutions Inc.	1,420,958	2,956		Outfront Media Inc.	2,663,596	44,162
*	Microvast Holdings Inc.	1,410,284	2,158		Macerich Co.	3,872,391	43,603
*	MSP Recovery Inc.	789,448	1,263		Kilroy Realty Corp.	1,053,578	40,742
	•	1	0,084,172		SL Green Realty Corp.  JBG SMITH Properties	1,159,522	39,099
		'	J,007,172		3DG SIVILLI FTOPELLIES	2,051,463	38,937

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
	National Health				RMR Group Inc. Class A	281,105	7,941
	Investors Inc.	743,117	38,806		Summit Hotel	,	.,
	Sunstone Hotel				Properties Inc.	915,427	6,609
	Investors Inc.	3,793,261	36,643		Bridge Investment		
*	Cushman & Wakefield				Group Holdings Inc.		
	plc	2,849,259	35,502		Class A	497,321	5,993
	Phillips Edison & Co.				Urstadt Biddle		
	Inc.	1,055,604	33,610		Properties Inc. Class A	269,558	5,108
	Kennedy-Wilson	0 444 744	00.040	*	Forestar Group Inc.	314,144	4,841
	Holdings Inc.	2,111,741	33,218		Alexander's Inc.	18,540	4,080
	Tanger Factory Outlet	1 707000	22.002	*,1	Seritage Growth		
	Centers Inc.	1,787,208	32,063		Properties Class A	328,346	3,884
	Retail Opportunity	0 100 100	22.061	*,1	WeWork Inc.	2,552,310	3,650
	Investments Corp.	2,133,133	32,061		Industrial Logistics		4 000
	Pebblebrook Hotel Trust	2,370,292	31,738		Properties Trust	590,842	1,932
	DigitalBridge Group Inc.	2,879,775	31,505	1	Urstadt Biddle	00.007	440
	DiamondRock	2 774 020	20.016	* 0	Properties Inc.	22,687	413
	Hospitality Co.	3,774,828	30,916	*,2	Spirit MTA REIT	334,911	
	Urban Edge Properties	2,011,443	28,341				4,352,251
	Elme Communities	1,577,822	28,085	Tech	nology (5.6%)		
	InvenTrust Properties	1 154 007	27226		Jabil Inc.	2,306,054	157,273
	Corp. Xenia Hotels &	1,154,897	27,336		KBR Inc.	2,473,500	130,601
		2.052.565	27052		Leidos Holdings Inc.	1,232,196	129,615
	Resorts Inc.	2,052,565	27,053	*	CACI International Inc.	, . ,	-,-
	LTC Properties Inc.	730,243	25,946		Class A	423,631	127,339
	Getty Realty Corp.	758,328	25,669	*	Arrow Electronics Inc.	1,108,919	115,960
	Veris Residential Inc.	1,560,038	24,851		Science Applications		
	Hudson Pacific	2 540 602	24 721		International Corp.	993,913	110,255
	Properties Inc.	2,540,683	24,721	*	DXC Technology Co.	4,147,837	109,918
	Acadia Realty Trust	1,712,001	24,567		Concentrix Corp.	698,665	93,034
	Alexander & Baldwin Inc.	1 207021	24 407	*	F5 Inc.	544,163	78,093
	Global Net Lease Inc.	1,307,921	24,497	*	Cirrus Logic Inc.	992,688	73,935
*		1,871,347	23,523		TD SYNNEX Corp.	775,199	73,419
	GEO Group Inc. American Assets	2,126,337	23,283	*	Rambus Inc.	1,937,780	69,411
	Trust Inc.	873,028	23,135		Avnet Inc.	1,649,927	68,604
	Service Properties Trust	2,982,961	21,746	*	Synaptics Inc.	718,842	68,405
	Piedmont Office Realty	2,902,901	21,740	*	Super Micro	, .0,0 .2	00,.00
	Trust Inc. Class A	2,224,700	20,401		Computer Inc.	811,015	66,584
	Empire State Realty	2,224,700	20,401	*	Ziff Davis Inc.	808,246	63,932
	Trust Inc. Class A	2,892,290	19,494	*	IAC Inc.	1,422,867	63,175
	Brandywine Realty Trust	3,093,179	19,023	*	Insight Enterprises Inc.	627,958	62,965
	Apartment Investment	0,000,170	10,020	*	Teradata Corp.	1,835,377	61,779
	& Management Co.				Dun & Bradstreet	.,000,077	0.,,,,
	Class A	2,597,071	18,491		Holdings Inc.	4,713,519	57,788
	Newmark Group Inc.	, , -	.,	*	Sanmina Corp.	983,598	56,350
	Class A	2,307,254	18,389	*	NCR Corp.	2,353,354	55,092
	CareTrust REIT Inc.	874,671	16,251	*	Plexus Corp.	498,075	51,267
	Centerspace	271,682	15,940		Vishay	+30,073	31,207
	RPT Realty	1,536,990	15,431		Intertechnology Inc.	2,335,937	50,386
	Necessity Retail	.,000,000	.0, .0 .		Amkor Technology Inc.	1,987,490	47,660
	REIT Inc. Class A	2,419,935	14,350	*	Kyndryl Holdings Inc.	3,679,850	40,920
*	Anywhere Real	., ,	,000	*	Verint Systems Inc.	1,116,846	40,520
	Estate Inc.	1,875,189	11,983	*	NetScout Systems Inc.	1,110,040	40,225
*	Compass Inc. Class A	5,100,765	11,885		Progress Software Corp.	775,218	
	Office Properties	.,,	,	*	Allscripts Healthcare	110,218	39,110
	Income Trust	875,601	11,689		Solutions Inc.	1,871,343	33,010
	Saul Centers Inc.	236,387	9,616		Solutions into.	.,0,1,0-0	55,010

			Market Value•				Market Value•
		Shares	(\$000)			Shares	(\$000)
	CSG Systems			*	United States Cellular		
	International Inc.	539,587	30,864		Corp.	235,315	4,906
*	Parsons Corp.	653,130	30,207	*,1	fuboTV Inc.	1,672,133	2,909
	Xerox Holdings Corp.	1,954,218	28,532			-	486,977
*	Blackbaud Inc.	478,659	28,174	Litilit	ties (5.3%)		400,577
	Methode			Otime	Atmos Energy Corp.	2,540,324	284,694
	Electronics Inc.	626,407	27,794		Essential Utilities Inc.	4,256,024	204,034
*	TTM Technologies Inc. CCC Intelligent	1,658,378	25,008		Pinnacle West Capital	, ,	,
	Solutions Holdings Inc.	2,797,752	24,340		Corp.	2,039,809	155,107
	Adeia Inc.	1,776,538	16,842		OGE Energy Corp.	3,609,488	142,755
	Benchmark	, .,	-,-		UGI Corp.	3,780,526	140,144
	Electronics Inc.	602,437	16,079		NRG Energy Inc.	4,153,590	132,167
*	ScanSource Inc.	455,152	13,300		National Fuel Gas Co.	1,649,391	104,407
*	Cerence Inc.	710,041	13,157		IDACORP Inc.	911,593	98,315
*	Informatica Inc. Class A	646,766	10,536		New Jersey Resources	4 707750	00.007
*,1	C3.ai Inc. Class A	851,541	9,529		Corp.	1,737,753	86,227
	Ebix Inc.	445,794	8,898		Stericycle Inc.	1,661,973	82,916
*	Squarespace Inc.		•		Hawaiian Electric Industries Inc.	1,973,670	82,598
	Class A	401,059	8,891		Black Hills Corp.		,
*	SolarWinds Corp.	874,466	8,185		Portland General Electric	1,173,288	82,529
*	Expensify Inc. Class A	745,061	6,579		Co.	1,608,949	78,839
*	N-able Inc.	567,112	5,830		South Jersey	1,000,949	70,039
*	Couchbase Inc.	403,718	5,353		Industries Inc.	2,207,934	78,448
*	AvePoint Inc.	1,262,099	5,187		PNM Resources Inc.	1,547,515	75,503
*,1	Rackspace				ONE Gas Inc.	976,104	73,911
	Technology Inc.	1,154,563	3,406		Southwest Gas	370,104	73,311
*	Unisys Corp.	580,223	2,965		Holdings Inc.	1,144,979	70,851
*	Nextdoor Holdings Inc.	964,624	1,987		ALLETE Inc.	1,030,564	66,482
*,1	Rumble Inc.	251,192	1,495		Spire Inc.	899,197	61,919
*	Telos Corp.	212,093	1,080		NorthWestern Corp.	1,041,662	61,812
		_	2,570,842		American States Water	.,0,002	0.,0.2
Telec	ommunications (1.0%)		2,570,042		Co.	666,372	61,673
*	Frontier				Avista Corp.	1,330,089	58,976
	Communications				MGE Energy Inc.	652,006	45,901
	Parent Inc.	4,417,174	112,550		Northwest Natural		
	Juniper Networks Inc.	2,925,558	93,501		Holding Co.	632,827	30,116
*	Iridium Communications				California Water Service		
	Inc.	1,019,084	52,381		Group	494,210	29,969
	Lumen Technologies Inc.	9,328,272	48,694		Clearway Energy Inc.		
*	Viavi Solutions Inc.	4,080,656	42,888		Class C	743,159	23,685
	InterDigital Inc.	534,801	26,462		Clearway Energy Inc.		
*	CommScope Holding				Class A	309,817	9,270
	Co. Inc.	3,568,445	26,228		Excelerate Energy Inc.	000 000	0.004
	Telephone & Data				Class A	368,208	9,224
	Systems Inc.	1,818,577	19,077	*,1	Harsco Corp.	1,432,807	9,012
*	Altice USA Inc. Class A	3,899,365	17,937	^,1	NuScale Power Corp.	350,595	3,597
	Shenandoah						2,444,187
	Telecommunications	050 000	10.605	Total	Common Stocks		
*	Co.	858,028	13,625		t \$39,751,562)		46,171,442
*	EchoStar Corp. Class A NETGEAR Inc.	607,091	10,126	,			. , :=
*		496,554	8,993				
	Xperi Inc.	778,173	6,700				

	Shares	Market Value• (\$000)
Temporary Cash Investments	(0.6%)	
Money Market Fund (0.6%)  3.4 Vanguard Market Liquidity Fund, 4.334% (Cost \$271,716)	2,718,245	271,797
Total Investments (100.4%) (Cost \$40,023,278)		46,443,239
Other Assets and Liabilities—Net (-0.4%)		(206,905)
Net Assets (100%)		46,236,334

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 \$222,283,000.
- 2 Security value determined using significant unobservable inputs
- 3 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 4 Collateral of \$243,740,000 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 2023	835	73,935	641

### 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)
Bridgebio Pharma Inc.	8/31/23	BANA	2,811	(4.115)	_	(534)
SunPower Corp.	1/31/23	GSI	8,567	(4.329)	_	(1,493)
					_	(2,027)

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

GSI-Goldman Sachs International.

## Statement of Assets and Liabilities

As of December 31, 2022

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value <sup>1</sup>	
Unaffiliated Issuers (Cost \$39,751,562)	46,171,442
Affiliated Issuers (Cost \$271,716)	271,797
Total Investments in Securities	46,443,239
Investment in Vanguard	1,779
Cash	17,946
Cash Collateral Pledged—Futures Contracts	6,040
Cash Collateral Pledged—Over-the-Counter Swap Contracts	2,370
Receivables for Investment Securities Sold	19
Receivables for Accrued Income	71,087
Receivables for Capital Shares Issued	15,034
Total Assets	46,557,514
Liabilities	
Payables for Investment Securities Purchased	20,902
Collateral for Securities on Loan	243,740
Payables for Capital Shares Redeemed	52,794
Payables to Vanguard	1,410
Variation Margin Payable—Futures Contracts	307
Unrealized Depreciation—Over-the-Counter Swap Contracts	2,027
Total Liabilities	321,180
Net Assets	46,236,334

<sup>1</sup> Includes \$222,283,000 of securities on loan.

### Statement of Assets and Liabilities (continued)

At December 31, 2022, net assets consisted of:	
(\$000s, except shares, footnotes, and per-share amounts)	Amount
Paid-in Capital	44,052,395
Total Distributable Earnings (Loss)	2,183,939
Net Assets	46,236,334
Investor Shares – Net Assets	
Applicable to 3,905,311 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	148,759
Net Asset Value Per Share—Investor Shares	\$38.09
ETF Shares – Net Assets	
Applicable to 149,741,771 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	23,785,646
Net Asset Value Per Share—ETF Shares	\$158.84
Admiral Shares—Net Assets	
Applicable to 256,473,575 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	17,505,241
Net Asset Value Per Share—Admiral Shares	\$68.25
Institutional Shares—Net Assets	
Applicable to 125,731,194 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	4,796,688
Net Asset Value Per Share—Institutional Shares	\$38.15

## Statement of Operations

Year Ended December 31, 2022 (\$000)Investment Income Income Dividends1 952.127 Interest<sup>2</sup> 746 17.148 Securities Lending-Net Total Income 970.021 Expenses The Vanguard Group—Note B Investment Advisory Services 1.357 Management and Administrative—Investor Shares 295 Management and Administrative—ETF Shares 14.048 Management and Administrative—Admiral Shares 10.752 2,323 Management and Administrative—Institutional Shares Marketing and Distribution—Investor Shares 11 Marketing and Distribution-ETF Shares 1.091 Marketing and Distribution—Admiral Shares 784 Marketing and Distribution—Institutional Shares 138 Custodian Fees 486 Auditing Fees 38 Shareholders' Reports—Investor Shares 1 Shareholders' Reports-ETF Shares 956 Shareholders' Reports—Admiral Shares 253 Shareholders' Reports—Institutional Shares 88 Trustees' Fees and Expenses 17 Other Expenses 23 Total Expenses 32.661 Expenses Paid Indirectly (35)Net Expenses 32,626 Net Investment Income 937.395 Realized Net Gain (Loss) Investment Securities Sold<sup>2,3</sup> 2,919,359 **Futures Contracts** (18,802)Swap Contracts (29.862)Realized Net Gain (Loss) 2,870,695

#### Statement of Operations (continued)

Statement of Operations (continued)	
	Year Ended December 31, 2022
	(\$000)
Change in Unrealized Appreciation (Depreciation)	
Investment Securities <sup>2</sup>	(8,632,407)
Futures Contracts	689
Swap Contracts	10,528
Change in Unrealized Appreciation (Depreciation)	(8,621,190)
Net Increase (Decrease) in Net Assets Resulting from Operations	(4,813,100)

<sup>1</sup> Dividends are net of foreign withholding taxes of \$29,000.

<sup>2</sup> Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$694,000, (\$23,000), less than \$1,000, and \$50,000, respectively. Purchases and sales are for temporary cash investment purposes.

<sup>3</sup> Includes \$4,200,545,000 of net gain (loss) resulting from in-kind redemptions.

# Statement of Changes in Net Assets

	Year Ended December 31		
	2022 (\$000)	2021 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	937,395	869,598	
Realized Net Gain (Loss)	2,870,695	2,618,650	
Change in Unrealized Appreciation (Depreciation)	(8,621,190)	7,023,947	
Net Increase (Decrease) in Net Assets Resulting from Operations	(4,813,100)	10,512,195	
Distributions			
Investor Shares	(2,947)	(4,230)	
ETF Shares	(477,621)	(452,167)	
Admiral Shares	(352,210)	(333,221)	
Institutional Shares	(91,664)	(82,438)	
Total Distributions	(924,442)	(872,056)	
Capital Share Transactions			
Investor Shares	(38,171)	(85,331)	
ETF Shares	(34,278)	4,135,700	
Admiral Shares	363,608	1,226,583	
Institutional Shares	581,216	25,431	
Net Increase (Decrease) from Capital Share Transactions	872,375	5,302,383	
Total Increase (Decrease)	(4,865,167)	14,942,522	
Net Assets			
Beginning of Period	51,101,501	36,158,979	
End of Period	46,236,334	51,101,501	

#### **Investor Shares**

For a Share Outstanding			Year Ended December 31,			
Throughout Each Period	2022	2021	2020	2019	2018	
Net Asset Value, Beginning of Period	\$42.87	\$34.08	\$32.86	\$27.35	\$31.82	
Investment Operations						
Net Investment Income <sup>1</sup>	.722	.724	.550	.543	.603	
Net Realized and Unrealized Gain (Loss) on Investments	(4.777)	8.767	1.208	5.608	(4.471)	
Total from Investment Operations	(4.055)	9.491	1.758	6.151	(3.868)	
Distributions						
Dividends from Net Investment Income	(.725)	(.701)	(.538)	(.641)	(.602)	
Distributions from Realized Capital Gains	_	_	_	_	_	
Total Distributions	(.725)	(.701)	(.538)	(.641)	(.602)	
Net Asset Value, End of Period	\$38.09	\$42.87	\$34.08	\$32.86	\$27.35	
Total Return <sup>2</sup>	-9.43%	27.96%	5.72%	22.61%	-12.34%	
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$149	\$208	\$234	\$255	\$1,501	
Ratio of Total Expenses to Average Net Assets	0.19%3	0.19%	0.19%	0.19%	0.19%	
Ratio of Net Investment Income to Average Net Assets	1.83%	1.78%	1.98%	1.76%	1.92%	
Portfolio Turnover Rate <sup>4</sup>	13%	16%	26%	19%	18%	

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.19%.

<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.

#### **ETF Shares**

For a Share Outstanding			Ye	ear Ended De	cember 31,
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$178.77	\$142.13	\$137.05	\$114.05	\$132.71
Investment Operations					
Net Investment Income <sup>1</sup>	3.273	3.131	2.584	2.840	2.720
Net Realized and Unrealized Gain (Loss) on Investments	(19.975)	36.640	4.884	22.984	(18.702)
Total from Investment Operations	(16.702)	39.771	7.468	25.824	(15.982)
Distributions					
Dividends from Net Investment Income	(3.228)	(3.131)	(2.388)	(2.824)	(2.678)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(3.228)	(3.131)	(2.388)	(2.824)	(2.678)
Net Asset Value, End of Period	\$158.84	\$178.77	\$142.13	\$137.05	\$114.05
Total Return	-9.29%	28.07%	5.82%	22.76%	-12.22%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$23,786	\$26,854	\$17,837	\$14,808	\$11,560
Ratio of Total Expenses to Average Net Assets	0.07%2	0.07%	0.07%	0.07%	0.07%
Ratio of Net Investment Income to Average Net Assets	1.99%	1.84%	2.23%	2.19%	2.04%
Portfolio Turnover Rate <sup>3</sup>	13%	16%	26%	19%	18%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.07%.

<sup>3</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			Year Ended December 31			
Throughout Each Period	2022	2021	2020	2019	2018	
Net Asset Value, Beginning of Period	\$76.81	\$61.07	\$58.89	\$49.01	\$57.02	
Investment Operations						
Net Investment Income <sup>1</sup>	1.403	1.381	1.058	1.230	1.165	
Net Realized and Unrealized Gain (Loss) on Investments	(8.576)	15.704	2.148	9.863	(8.024)	
Total from Investment Operations	(7.173)	17.085	3.206	11.093	(6.859)	
Distributions						
Dividends from Net Investment Income	(1.387)	(1.345)	(1.026)	(1.213)	(1.151)	
Distributions from Realized Capital Gains	_	_	_	_	_	
Total Distributions	(1.387)	(1.345)	(1.026)	(1.213)	(1.151)	
Net Asset Value, End of Period	\$68.25	\$76.81	\$61.07	\$58.89	\$49.01	
Total Return <sup>2</sup>	-9.31%	28.09%	5.85%	22.76%	-12.23%	
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$17,505	\$19,307	\$14,314	\$13,907	\$10,167	
Ratio of Total Expenses to Average Net Assets	0.07%3	0.07%	0.07%	0.07%	0.07%	
Ratio of Net Investment Income to Average Net Assets	1.99%	1.89%	2.13%	2.21%	2.04%	
Portfolio Turnover Rate <sup>4</sup>	13%	16%	26%	19%	18%	

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

<sup>2</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>3</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.07%.

<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.

#### Institutional Shares

For a Share Outstanding	Year Ended Decemb				
Throughout Each Period	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$42.94	\$34.14	\$32.92	\$27.39	\$31.87
Investment Operations					
Net Investment Income <sup>1</sup>	.796	.781	.597	.684	.651
Net Realized and Unrealized Gain (Loss) on Investments	(4.806)	8.775	1.199	5.527	(4.485)
Total from Investment Operations	(4.010)	9.556	1.796	6.211	(3.834)
Distributions					
Dividends from Net Investment Income	(.780)	(.756)	(.576)	(.681)	(.646)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(.780)	(.756)	(.576)	(.681)	(.646)
Net Asset Value, End of Period	\$38.15	\$42.94	\$34.14	\$32.92	\$27.39
Total Return	-9.31%	28.11%	5.86%	22.81%	-12.23%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$4,797	\$4,733	\$3,774	\$3,632	\$3,077
Ratio of Total Expenses to Average Net Assets	0.06%2	0.06%	0.06%	0.06%	0.06%
Ratio of Net Investment Income to Average Net Assets	2.02%	1.91%	2.14%	2.20%	2.05%
Portfolio Turnover Rate <sup>3</sup>	13%	16%	26%	19%	18%

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

<sup>2</sup> The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.06%.

<sup>3</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 Small-Cap Value Index Fund is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. The fund offers four classes of shares: Investor Shares, ETF Shares, Admiral Shares, and Institutional 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.

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.

- 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 Vanquard Market Liquidity Fund are valued at that fund's net asset value.
- 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, 2022, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

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

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

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

During the year ended December 31, 2022, 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 \$4.4 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, 2022, the fund did not utilize the credit facilities or the Interfund Lending Program.

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. 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, 2022, the fund had contributed to Vanguard capital in the amount of \$1,779,000, representing less than 0.01% of the fund's net assets and 0.71% 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, 2022, custodian fee offset arrangements reduced the fund's expenses by \$35,000 (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, 2022, based on the inputs used to value them:

	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)	Total (\$000)
Investments	(ΦΟΟΟ)	(\$000)	(\$000)	(\$\psi 000)
Assets				
Common Stocks	46,170,911	_	531	46,171,442
Temporary Cash Investments	271,797	_	_	271,797
Total	46,442,708	_	531	46,443,239
Derivative Financial Instruments				
Assets				
Futures Contracts <sup>1</sup>	641	_	_	641
Liabilities				
Swap Contracts		2,027		2,027

<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	4,204,377
Total Distributable Earnings (Loss)	(4,204,377)

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

	Amount (\$000)
Undistributed Ordinary Income	6,963
Undistributed Long-Term Gains	_
Capital Loss Carryforwards	(4,143,488)
Qualified Late-Year Losses	_
Net Unrealized Gains (Losses)	6,320,464

The tax character of distributions paid was as follows:

	Year Ended D	Year Ended December 31,		
	2022	2021		
	Amount (\$000)	Amount (\$000)		
Ordinary Income*	924,442	872,056		
Long-Term Capital Gains	_	_		
Total	924,442	872,056		

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

As of December 31, 2022, 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	40,122,775
Gross Unrealized Appreciation	11,110,861
Gross Unrealized Depreciation	(4,790,397)
Net Unrealized Appreciation (Depreciation)	6,320,464

F. During the year ended December 31, 2022, the fund purchased \$15,646,058,000 of investment securities and sold \$14,584,302,000 of investment securities, other than temporary cash investments. Purchases and sales include \$8,165,011,000 and \$8,444,956,000, 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, 2022, such purchases were \$1,731,955,000 and sales were \$1,026,355,000, resulting in net realized loss of \$642,576,000; 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 31,			
	2022		2021	
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)
Investor Shares				
Issued	14,773	371	54,280	1,367
Issued in Lieu of Cash Distributions	2,947	78	4,230	104
Redeemed	(55,891)	(1,394)	(143,841)	(3,484)
Net Increase (Decrease)—Investor Shares	(38,171)	(945)	(85,331)	(2,013)

		Year Ended De	December 31,	
		2022		2021
	Amount (\$000)	Shares (000)	Amount (\$000)	Shares (000)
ETF Shares				
Issued	8,743,606	53,827	7,328,388	43,317
Issued in Lieu of Cash Distributions	_	_	_	_
Redeemed	(8,777,884)	(54,300)	(3,192,688)	(18,600)
Net Increase (Decrease)—ETF Shares	(34,278)	(473)	4,135,700	24,717
Admiral Shares				
Issued	2,968,180	42,013	4,310,954	59,661
Issued in Lieu of Cash Distributions	309,221	4,569	290,460	3,954
Redeemed	(2,913,793)	(41,449)	(3,374,831)	(46,666)
Net Increase (Decrease)—Admiral Shares	363,608	5,133	1,226,583	16,949
Institutional Shares				
Issued	1,285,688	33,018	1,068,001	26,335
Issued in Lieu of Cash Distributions	87,334	2,308	77,051	1,876
Redeemed	(791,806)	(19,834)	(1,119,621)	(28,530)
Net Increase (Decrease)—Institutional Shares	581.216	15.492	25.431	(319)

**H.** Management has determined that no events or transactions occurred subsequent to December 31, 2022, 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 Small-Cap Index Fund, Vanguard Small-Cap Growth Index Fund and Vanguard Small-Cap Value Index Fund

### Opinions on the Financial Statements

We have audited the accompanying statements of assets and liabilities, including the schedules of investments, of Vanguard Small-Cap Index Fund, Vanguard Small-Cap Growth Index Fund and Vanguard Small-Cap Value Index Fund (three of the funds constituting Vanguard Index Funds, hereafter collectively referred to as the "Funds") as of December 31, 2022, the related statements of operations for the year ended December 31, 2022, the statements of changes in net assets for each of the two years in the period ended December 31, 2022, including the related notes, and the financial highlights for each of the five years in the period ended December 31, 2022 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of each of the Funds as of December 31, 2022, the results of each of their operations for the year then ended, the changes in each of their net assets for each of the two years in the period ended December 31, 2022 and each of the financial highlights for each of the five years in the period ended December 31, 2022 in conformity with accounting principles generally accepted in the United States of America

#### Basis for Opinions

These financial statements are the responsibility of the Funds' management. Our responsibility is to express an opinion on the Funds' 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 Funds 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, 2022 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 opinions.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania February 16, 2023

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

#### Tax information (unaudited)

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

Fund	Percentage
Small-Cap Index Fund	76.0%
Small-Cap Growth Index Fund	88.4
Small-Cap Value Index Fund	79.1

The following amounts, or if subsequently determined to be different, the maximum amounts allowable by law, are hereby designated as qualified dividend income for individual shareholders for the fiscal year.

Fund	(\$000)
Small-Cap Index Fund	1,356,224
Small-Cap Growth Index Fund	129,175
Small-Cap Value Index Fund	761,278

The following amounts, or if subsequently determined to be different, the maximum amounts allowable by law, are hereby designated as interest earned from obligations of the U.S. government which is generally exempt from state income tax.

Fund	(\$000)
Small-Cap Index Fund	3,333
Small-Cap Growth Index Fund	278
Small-Cap Value Index Fund	199

The following amounts, or if subsequently determined to be different, the maximum amounts allowable by law, are hereby designated as qualified business income for individual shareholders for the fiscal year.

Fund	(\$000)
Small-Cap Index Fund	272,873
Small-Cap Growth Index Fund	15,284
Small-Cap Value Index Fund	122,489

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NEITHER CRSP NOR THE UNIVERSITY GUARANTEE THE ADEQUACY, ACCURACY, TIMELINESS AND/OR THE COMPLETENESS OF THE INDEXES 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 VANGUARD SMALL-CAP INDEX, SMALL-CAP GROWTH INDEX, AND SMALL-CAP VALUE INDEX FUNDS, OR ANY OTHER PERSON OR ENTITY FROM THE USE OF THE INDEXES 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, OR 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 206 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. Trustee and vice chair of The Shipley School.

#### Independent Trustees

#### Tara Bunch

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

#### Emerson U. Fullwood

Born in 1948. Trustee since January 2008. Principal occupation(s) during the past five years and other experience: executive chief staff and marketing officer for North America and corporate vice president (retired 2008) of Xerox Corporation (document management products and services). Former president of the Worldwide Channels Group, Latin America, and Worldwide Customer Service and executive chief staff officer of Developing Markets of Xerox. Executive in residence and 2009-2010 Distinguished Minett Professor at the Rochester Institute of Technology. Member of the board of directors of the University of Rochester Medical Center, the Monroe Community College Foundation. the United Way of Rochester, North Carolina A&T University, Roberts Wesleyan College, and the Rochester Philharmonic Orchestra. Trustee of the University of Rochester.

<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.

#### F. Joseph Loughrey

Born in 1949. Trustee since October 2009. Principal occupation(s) during the past five years and other experience: president and chief operating officer (retired 2009) and vice chairman of the board (2008–2009) of Cummins Inc. (industrial machinery). Chairman of the board of Hillenbrand, Inc. (specialized consumer services). Director of the V Foundation. Member of the advisory council for the College of Arts and Letters at the University of Notre Dame. Chairman of the board of Saint Anselm College.

#### Mark Loughridge

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

#### Scott C. Malpass

Born in 1962. Trustee since March 2012. Principal occupation(s) during the past five years and other experience: adjunct professor of finance at the University of Notre Dame (2020–present). Chief investment officer (retired 2020) and vice president (retired 2020) of the University of Notre Dame. Assistant professor (retired June 2020) of finance at the Mendoza College of Business, University of Notre Dame, and member of the Notre Dame 403(b) Investment Committee. Member of the board of Catholic Investment Services, Inc. (investment advisors), the board of superintendence of the Institute for the Works of Religion, and the board of directors of Paxos Trust Company (finance).

#### Deanna Mulligan

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

#### André F. Perold

Born in 1952. Trustee since December 2004. Principal occupation(s) during the past five years and other experience: George Gund Professor of Finance and Banking, Emeritus at the Harvard Business School (retired 2011). Chief investment officer and co-managing partner of HighVista Strategies (private investment firm). Member of the board (2018–present) of RIT Capital Partners (investment firm). Member of the investment committee of Partners Health Care System.

#### Sarah Bloom Raskin

Born in 1961. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: deputy secretary (2014–2017) of the United States Department of the Treasury. Governor (2010–2014) of the Federal Reserve Board. Commissioner (2007–2010) of financial regulation for the State of Maryland. Colin W. Brown Distinguished Professor of the Practice of Law (2021–present), professor (2020–present), Distinguished Fellow of the Global Financial Markets Center (2020–present), and Rubenstein Fellow (2017–2020) at Duke University. Trustee (2017–present) of Amherst College and member of Amherst College Investment Committee (2019–present). Member of the Regenerative Crisis Response Committee (2020–present).

#### David A. Thomas

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

#### Peter F. Volanakis

Born in 1955. Trustee since July 2009. Principal occupation(s) during the past five years and other experience: president and chief operating officer (retired 2010) of Corning Incorporated (communications equipment) and director of Corning Incorporated (2000–2010) and Dow Corning (2001–2010). Director (2012) of SPX Corporation (multi-industry manufacturing). Overseer of the Amos Tuck School of Business Administration, Dartmouth College (2001–2013). Member of the BMW Group Mobility Council.

#### Executive Officers

#### 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 Corporation.

#### 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).

#### Peter Mahoney

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

#### Anne E. Robinson

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