Vanguard

Annual Report | November 30, 2023

Vanguard U.S. Factor ETFs

- Vanguard U.S. Minimum Volatility ETF
- Vanguard U.S. Momentum Factor ETF
- Vanguard U.S. Multifactor ETF
- Vanguard U.S. Quality Factor ETF
- Vanguard U.S. Value Factor ETF

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

Important information about shareholder reports

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

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

Contents

Your Fund's Performance at a Glance 1
Advisor's Report 2
About Your Fund's Expenses 4
U.S. Minimum Volatility ETF 6
U.S. Momentum Factor ETF20
U.S. Multifactor ETF
U.S. Quality Factor ETF53
U.S. Value Factor ETF

Your Fund's Performance at a Glance

• Vanguard's five U.S. Factor ETFs posted returns ranging from –0.06% to 6.84% (based on net asset value) for the 12 months ended November 30, 2023. All five ETFs underperformed the 12.61% return of their benchmark, the Russell 3000 Index.

• For much of the period, inflation continued to ease amid interest rate hikes by the Federal Reserve. Unexpected resilience in the labor market and consumer spending dialed back expectations of an imminent recession. Although the prospect of higher interest rates for longer and heightened geopolitical tensions weighed on market sentiment at times toward the close of the period, global stocks and bonds rallied in November.

• The U.S. Factor ETFs seek to provide long-term capital appreciation by investing in stocks that have lower or higher measures of certain factors relative to the broad U.S. equity market.

• Vanguard U.S. Quality Factor ETF performed best among the group. A lack of exposure to utilities, selection in industrials, and an underweight allocation to real estate contributed the most to its relative performance. Vanguard U.S. Momentum Factor ETF performed the worst.

	Per	Average Annual ods Ended Noven	
	One Year	Three Years	Five Years
Stocks			
Russell 1000 Index (Large-caps)	13.57%	8.72%	12.25%
Russell 2000 Index (Small-caps)	-2.56	1.13	4.78
Russell 3000 Index (Broad U.S. market)	12.61	8.26	11.77
FTSE All-World ex US Index (International)	9.64	2.12	5.49
Bonds			
Bloomberg U.S. Aggregate Float Adjusted Index (Broad taxable market)	1.32%	-4.46%	0.79%
Bloomberg Municipal Bond Index (Broad tax-exempt market)	4.28	-0.96	2.03
FTSE Three-Month U.S. Treasury Bill Index	5.12	2.08	1.85
CPI			
Consumer Price Index	3.14%	5.67%	4.03%

Market Barometer

Advisor's Report

For the 12 months ended November 30, 2023, Vanguard's five U.S. Factor ETFs posted returns (based on net asset value) ranging from –0.06% for the U.S. Momentum Factor ETF to 6.84% for the U.S. Quality Factor ETF. All five ETFs underperformed their benchmark, the Russell 3000 Index, which returned 12.61%.

The objective of each U.S. Factor ETF is to create a portfolio that has broad exposure to large-, mid-, and small-capitalization U.S. equities and that has the potential for long-term capital appreciation, subject to rules-based screens as follows:

• Vanguard U.S. Minimum Volatility ETF seeks to build a portfolio of stocks with lower volatility relative to the broad U.S. equity market.

 Vanguard U.S. Momentum Factor ETF seeks exposure to stocks with relatively strong recent performance as identified by measures such as returns over different periods.

• Vanguard U.S. Multifactor ETF seeks exposure to stocks with relatively strong recent performance, strong fundamentals, and low prices relative to fundamentals.

• Vanguard U.S. Quality Factor ETF seeks exposure to stocks with strong fundamentals as identified by measures such as profitability, earnings, and balance-sheet strength.

• Vanguard U.S. Value Factor ETF seeks exposure to stocks with lower prices

relative to fundamental measures of value such as book/price and earnings/price ratios.

The investment environment

At the beginning of the 12 months, inflation eased off multidecade highs amid ongoing interest rate hikes by central banks. Unexpected resilience in labor markets and consumer spending helped dial back expectations of a sustained global recession. Although heightened geopolitical tensions and the prospect of higher interest rates for longer weighed on market sentiment toward the close of the period, global stocks and bonds rallied in November.

Within this environment, large-cap stocks outperformed small-caps. Growth outpaced value, and U.S. stocks outperformed their non-U.S. counterparts. Six of the benchmark's 11 industry sectors gained ground, with information technology (IT), communication services, and consumer discretionary producing the strongest results.

The ETFs' successes and shortfalls

The outperformance of large-cap stocks during the period was a significant reason for the ETFs' underperformance, as our approach to factor investing tends to favor smaller companies relative to their benchmark.

Sector exposure affected the ETFs differently based on the factor each seeks to emphasize:

• The U.S. Minimum Volatility ETF was held back the most by our positions in IT,

communication services, and financials. Materials, energy, and real estate added to performance.

• The U.S. Momentum Factor ETF was held back in particular by our positions in IT, health care, and energy. The underperformance was somewhat offset by our lack of exposure to utilities and underweight allocations to real estate and industrials.

• The U.S. Multifactor ETF was hurt the most by our positions in IT, communication services, and financials. Our lack of exposure to utilities, underweight allocation to real estate, and selection in industrials contributed to relative performance.

• The U.S. Quality Factor ETF was held back in particular by our positions in IT, communication services, and consumer staples. Our lack of exposure to utilities, selection in industrials, and underweight allocation to real estate added the most to results.

• The U.S. Value Factor ETF was hurt the most by our positions in IT, financials, and communication services. Selection in industrials, a lack of exposure to utilities, and an underweight allocation to health care benefited relative performance the most.

We expect our approach to portfolio construction to produce long-term capital appreciation that reflects the factors emphasized by each of the U.S. Factor ETF portfolios. Results will vary over different periods and across factors. However, we believe that focusing on the risk-adjusted returns of each portfolio relative to its targeted factors and the benchmark will serve investors well over time.

We thank you for your investment and look forward to serving you in the period ahead.

John Ameriks, Ph.D., Principal, Global Head, and Portfolio Manager

Scott Rodemer, CFA, Head of Equity Factor Investments and Portfolio Manager

Vanguard Quantitative Equity Group

December 13, 2023

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 November 30, 2023

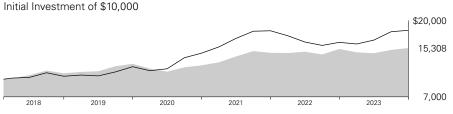
	Beginning Account Value 5/31/2023	Ending Account Value 11/30/2023	Expenses Paid During Period
Based on Actual Fund Return			
U.S. Minimum Volatility ETF	\$1,000.00	\$1,061.70	\$0.67
U.S. Momentum Factor ETF	\$1,000.00	\$1,078.10	\$0.68
U.S. Multifactor ETF	\$1,000.00	\$1,127.40	\$0.96
U.S. Quality Factor ETF	\$1,000.00	\$1,126.50	\$0.69
U.S. Value Factor ETF	\$1,000.00	\$1,141.50	\$0.70
Based on Hypothetical 5% Yearly Return			
U.S. Minimum Volatility ETF	\$1,000.00	\$1,024.42	\$0.66
U.S. Momentum Factor ETF	\$1,000.00	\$1,024.42	\$0.66
U.S. Multifactor ETF	\$1,000.00	\$1,024.17	\$0.91
U.S. Quality Factor ETF	\$1,000.00	\$1,024.42	\$0.66
U.S. Value Factor ETF	\$1,000.00	\$1,024.42	\$0.66

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 0.13% for the U.S. Minimum Volatility ETF, 0.13% for the U.S. Momentum Factor ETF, 0.18% for the U.S. Multifactor ETF, 0.13% for the U.S. Quality Factor ETF, and 0.13% for the U.S. Value Factor ETF. 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 12-month period (183/365).

U.S. Minimum Volatility ETF

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: February 13, 2018, Through November 30, 2023

			Total Returns nber 30, 2023	
	One Year	Five Years	Since Inception (2/13/2018)	Final Value of a \$10,000 Investment
U.S. Minimum Volatility ETF Net Asset Value	1.13%	6.82%	7.63%	\$15,308
US Minimum Volatility ETF Market Price	1.21	6.83	7.63	15,316
	12.61	11.77	11.02	18,324

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

Cumulative Returns of ETF Shares: February 13, 2018, Through November 30, 2023

	One Year	Five Years	Since Inception (2/13/2018)
US Minimum Volatility ETF Market Price	1.21%	39.13%	53.16%
US Minimum Volatility ETF Net Asset Value	1.13	39.07	53.08
Russell 3000 Index	12.61	74.44	83.24

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

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 November 30, 2023

Consumer Discretionary	14.5%
Consumer Staples	11.6
Energy	2.8
Financials	11.5
Health Care	14.3
Industrials	10.0
Real Estate	1.2
Technology	21.4
Telecommunications	6.8
Utilities	5.9

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

Financial Statements

Schedule of Investments As of November 30, 2023

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third guarters 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)
Common Stocks (99.4%)		
Consumer Discretionary (14.5%) Electronic Arts Inc. O'Reilly Automotive Inc.	10,951 1,485	1,511 1,459
TJX Cos. Inc. McDonald's Corp. * Stride Inc. Walmart Inc.	16,140 4,997 18,932 6,264	1,422 1,408 1,147 975
Service Corp. International Murphy USA Inc. * Instructure Holdings Inc.	11,850 1,791 23,451	726 662 613
 Grand Canyon Education Inc. Atlanta Braves Holdings Inc. Class C 	4,050 14,532	554 522
Marcus Corp. * AutoZone Inc. * Atlanta Braves Holdings Inc.	30,320 150	422 392
Class A * QuinStreet Inc. * Madison Square Garden Sports	7,499 23,171	303 289
Corp. Rollins Inc. Laureate Education Inc.	1,606 6,185 15,944	272 252 209
 Adtalem Global Education Inc. Graham Holdings Co. Class B Cars.com Inc. 	3,593 139 1,820	205 87 34
* Daily Journal Corp.	100_	33
Consumer Staples (11.5%) McKesson Corp.	3,107	13,497 1,462
Church & Dwight Co. Inc. Procter & Gamble Co. Cencora Inc.	14,473 6,880 4,457	1,399 1,056 906
Colgate-Palmolive Co. General Mills Inc. Hormel Foods Corp. Hershey Co.	11,422 10,423 16,912 2,612	900 664 517 491
Flowers Foods Inc. Altria Group Inc. Kimberly-Clark Corp.	22,518 9,873 3,244	469 415 401
Kellanova John B Sanfilippo & Son Inc. Mondelez International Inc.	7,259 4,072	381 375
Class A Universal Corp. J & J Snack Foods Corp. Oil-Dri Corp. of America Coca-Cola Co.	4,862 4,837 1,521 2,294 1,837	346 272 250 130 107
	1,007	107

	Shares	Market Value• (\$000)
PepsiCo Inc. Lancaster Colony Corp. Reynolds Consumer Products	363 358	61 59
Inc. J M Smucker Co.	2,198 405_	58 45
Energy (2.7%)		10,764
Exxon Mobil Corp. Chevron Corp. Williams Cos. Inc. Kinder Morgan Inc.	9,682 5,195 16,329 12,617	995 746 601 221
Financiala (11 50()		2,563
Financials (11.5%) Cboe Global Markets Inc. CME Group Inc. Safety Insurance Group Inc. White Mountains Insurance	8,189 6,427 14,286	1,492 1,403 1,099
Group Ltd. * Enstar Group Ltd. First Financial Corp. AMERISAFE Inc. City Holding Co. * Columbia Financial Inc.	640 3,553 23,942 12,581 5,851 27,279	980 976 916 606 563 449
Travelers Cos. Inc. Waterstone Financial Inc. Arthur J Gallagher & Co. Progressive Corp. Donegal Group Inc. Class A Great Southern Bancorp Inc. * Berkshire Hathaway Inc.	2,225 30,412 1,472 1,600 13,137 3,671	402 371 367 262 187 187
Class B Horace Mann Educators Corp.	334 3,515	120 118
 Greenlight Capital Re Ltd. Class A Intercontinental Exchange Inc. Blue Foundry Bancorp Employers Holdings Inc. FVCBankcorp Inc. 	4,452 416 4,591 921 2,036	49 47 40 35 23
11 11 0 (11 0)()	-	10,692
Health Care (14.2%) Johnson & Johnson Merck & Co. Inc. AbbVie Inc. Eli Lilly & Co. Gilead Sciences Inc. National HealthCare Corp. Chemed Corp. Amgen Inc.	9,112 13,590 9,545 2,019 14,782 14,175 1,674 3,457	1,409 1,393 1,359 1,193 1,132 1,085 949 932

	Shares	Market Value• (\$000)
Bristol-Myers Squibb Co. Cardinal Health Inc. HealthStream Inc. * Prestige Consumer Healthcare	17,668 8,036 27,965	872 860 699
 Inc. Incyte Corp. Becton Dickinson & Co. UnitedHealth Group Inc. Vertex Pharmaceuticals Inc. Merrimack Pharmaceuticals 	8,014 5,552 1,146 186 241	460 302 271 103 86
Inc. * Neurocrine Biosciences Inc. *.1 Theravance Biopharma Inc. Summit Therapeutics Inc. (XNMS)	5,466 545 2,954	69 64 31
(XNMS)	9,144 _	19
Industrials (9.9%)		13,288
Northrop Grumman Corp. Kirby Corp. Lockheed Martin Corp. FTI Consulting Inc. Huron Consulting Group Inc. OSI Systems Inc. Cass Information Systems Inc. Accenture plc Class A Ennis Inc. Heartland Express Inc. Powell Industries Inc. Leonardo DRS Inc. Overseas Shipholding Group	3,078 18,278 3,121 6,090 9,493 7,465 14,495 789 11,637 15,633 1,210 4,645	1,462 1,403 1,397 1,343 989 920 599 263 247 210 101 86
Inc. Class A General Dynamics Corp. Marten Transport Ltd. * CPI Card Group Inc. Argan Inc. United States Lime & Minerals	14,556 218 1,866 1,346 438	71 54 35 24 20
Inc. * CompoSecure Inc.	85 3,517	18 18
		9,260
Real Estate (1.2%) Equity Commonwealth	59,399	1,116
Technology (21.3%) International Business Machines Corp. Roper Technologies Inc. * CommVault Systems Inc. Apple Inc. NetApp Inc. Amdocs Ltd. Texas Instruments Inc. Dolby Laboratories Inc. Class A Blackbaud Inc. Microsoft Corp. Broadcom Inc. * Agilysys Inc. * Alphabet Inc. Class A Hewlett Packard Enterprise Co. * Insight Enterprises Inc. * Yelp Inc. * Cirrus Logic Inc. * Parsons Corp. Leidos Holdings Inc.	$\begin{array}{c} 10,042\\ 2,891\\ 20,528\\ 6,568\\ 13,579\\ 13,840\\ 7,513\\ 12,803\\ 2,215\\ 901\\ 9,060\\ 5,454\\ 41,194\\ 4,425\\ 14,213\\ 7,683\\ 6,102\\ 3,336\end{array}$	1,592 1,556 1,510 1,248 1,241 1,159 1,147 1,103 919 839 834 780 723 697 670 621 583 380 358

		Shares	Market Value• (\$000)
	NVE Corp. Analog Devices Inc.	4,479 1,412	321 259
*	NetScout Systems Inc.	12,421	249
*	Meta Platforms Inc. Class A Immersion Corp.	718	235 201
*	Veeco Instruments Inc.	30,988 6,527	186
*	N-Able Inc.	15,202	181
	Sapiens International Corp. NV PC Connection Inc.	5,350 1,297	138 77
*	Alphabet Inc. Class C	514	69
*	TrueCar Inc.	12,780	36
То	locommunications (6.7%)		19,912
ie	lecommunications (6.7%) T-Mobile US Inc.	9,607	1,445
	Verizon Communications Inc.	33,926	1,301
	InterDigital Inc. Cisco Systems Inc.	12,170 17,798	1,216 861
*	IDT Corp. Class B	24,096	707
	Spok Holdings Inc.	14,519	243
	Shenandoah Telecommunications Co.	10,649	237
	ATN International Inc.	4,470	136
	Iridium Communications Inc. Motorola Solutions Inc.	2,848 85	109 28
		- 00	6,283
Ut	ilities (5.9%)	0 000	1 202
	Republic Services Inc. Chesapeake Utilities Corp.	8,602 9,238	1,392 883
	Duke Energy Corp.	6,154	568
	Consolidated Edison Inc.	6,006	541
	Waste Management Inc. WEC Energy Group Inc.	3,007 5,189	514 434
	MGE Energy Inc.	5,374	396
	Northwest Natural Holding Co.	9,642	353
	Northwestern Energy Group Inc.	4,609	232
	Spire Inc.	1,860	114
	DTE Energy Co. CMS Energy Corp.	358 527	37 30
	civid Energy corp.	527	5,494
То	tal Common Stocks (Cost \$87,4	167)	92,869
_	mporary Cash Investments (0.3	,	02,000
_	oney Market Fund (0.2%)	,	
	Vanguard Market Liquidity	1.075	100
	Fund, 5.438% (Cost \$187)	1,875	188
Total Investments (99.6%) (Cost \$87,654) Other Assets and Liabilities—Net (0.4%)			93,057 336
	et Assets (100%)	1 (0.470)	93,393
-	· · ·		93,393
COS	st is in \$000.		

See Note A in Notes to Financial Statements.
 Non-income-producing security.

I includes partial security positions on loan to broker-dealers. The total value of security on loan is \$2,000.

2 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield. 3 Collateral of \$2,000 was received for securities on loan.

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				
Micro E-mini S&P 500 Index	December 2023	16	366	5

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Assets and Liabilities

As of November 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value ¹	
Unaffiliated Issuers (Cost \$87,467)	92,869
Affiliated Issuers (Cost \$187)	188
Total Investments in Securities	93,057
Investment in Vanguard	3
Cash Collateral Pledged—Futures Contracts	14
Receivables for Investment Securities Sold	94
Receivables for Accrued Income	214
Receivables for Capital Shares Issued	508
Variation Margin Receivable—Futures Contracts	1
Total Assets	93,891
Liabilities	
Payables for Investment Securities Purchased	491
Collateral for Securities on Loan	2
Payables to Vanguard	5
Total Liabilities	498
Net Assets	93,393

1 Includes \$2,000 of securities on loan.

At November 30, 2023, net assets consisted of:

Paid-in Capital	98,229
Total Distributable Earnings (Loss)	(4,836)
Net Assets	93,393
Net Assets	
Applicable to 920,000 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	93,393
Net Asset Value Per Share	\$101.51

Statement of Operations

	Year Ended November 30, 2023
	(\$000)
Investment Income	
Income	
Dividends	2,160
Interest ¹	22
Securities Lending—Net	21
Total Income	2,203
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	_
Management and Administrative	44
Marketing and Distribution	_
Custodian Fees	1
Auditing Fees	28
Shareholders' Reports	25
Trustees' Fees and Expenses	_
Professional Services	16
Total Expenses	114
Expenses Paid Indirectly	(1)
Net Expenses	113
Net Investment Income	2,090
Realized Net Gain (Loss)	
Investment Securities Sold ^{1,2}	605
Futures Contracts	34
Realized Net Gain (Loss)	639
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ¹	(1,774)
Futures Contracts	(3)
Change in Unrealized Appreciation (Depreciation)	(1,777)
Net Increase (Decrease) in Net Assets Resulting from Operations	952

1 Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$21,000, less than \$1,000, less than \$1,000, and \$1,000, respectively. Purchases and sales are for temporary cash investment purposes.

2 Includes \$3,789,000 of net gain (loss) resulting from in-kind redemptions.

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Changes in Net Assets

	Year Ended November 30,	
	2023 (\$000)	2022 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	2,090	1,311
Realized Net Gain (Loss)	639	2,030
Change in Unrealized Appreciation (Depreciation)	(1,777)	(43)
Net Increase (Decrease) in Net Assets Resulting from Operations	952	3,298
Distributions		
Total Distributions	(2,061)	(1,062)
Capital Share Transactions		
Issued	31,343	42,084
Issued in Lieu of Cash Distributions	_	_
Redeemed	(17,629)	(10,661)
Net Increase (Decrease) from Capital Share Transactions	13,714	31,423
Total Increase (Decrease)	12,605	33,659
Net Assets		
Beginning of Period	80,788	47,129
End of Period	93,393	80,788

Financial Highlights

For a Share Outstanding			Year	Ended Nov	ember 30,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$102.91	\$100.28	\$87.08	\$91.10	\$81.69
Investment Operations					
Net Investment Income ¹	2.373	2.160	1.374	1.779	2.632
Net Realized and Unrealized Gain (Loss) on Investments	(1.354)	2.231	13.497	(3.776)	8.996
Total from Investment Operations	1.019	4.391	14.871	(1.997)	11.628
Distributions					
Dividends from Net Investment Income	(2.419)	(1.761)	(1.671)	(2.023)	(2.218)
Distributions from Realized Capital Gains	_	—	—	—	_
Total Distributions	(2.419)	(1.761)	(1.671)	(2.023)	(2.218)
Net Asset Value, End of Period	\$101.51	\$102.91	\$100.28	\$87.08	\$91.10
Total Return	1.13%	4.46%	17.22%	-1.99%	14.58%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$93	\$81	\$47	\$57	\$91
Ratio of Total Expenses to Average Net Assets	0.13%²	0.13%	0.13%	0.13%	0.13%
Ratio of Net Investment Income to Average Net Assets	2.40%	2.18%	1.43%	2.14%	3.05%
Portfolio Turnover Rate	26% ³	32% ³	46% ³	83% ³	23%

1 Calculated based on average shares outstanding.

2 The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.13%.

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

See accompanying Notes, which are an integral part of the Financial Statements.

Notes to Financial Statements

Vanguard U.S. Minimum Volatility ETF is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. ETF Shares are listed for trading on Cboe BZX Exchange, Inc.; they can be purchased and sold through a broker.

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

1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been 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 objective of maintaining full exposure to the stock market while maintaining liquidity. The fund may purchase or sell futures contracts to achieve a desired level of investment, whether to accommodate portfolio turnover or cash flows from capital share transactions. 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 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 November 30, 2023, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. 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.

4. 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.

5. 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.

6. Credit Facilities and Interfund Lending Program: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the year ended November 30, 2023, the fund did not utilize the credit facilities or the Interfund Lending Program.

7. 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.

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 November 30, 2023, the fund had contributed to Vanguard capital in the amount of \$3,000, representing less than 0.01% of the fund's net assets and less than 0.01% 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 November 30, 2023, custodian fee offset arrangements reduced the fund's expenses by \$1,000 (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.

At November 30, 2023, 100% of the market value of the fund's investments and derivatives was determined based on Level 1 inputs.

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 were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	3,761
Total Distributable Earnings (Loss)	(3,761)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to capital loss carryforwards; and the recognition of unrealized gains or losses from certain derivative contracts. 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	408
Undistributed Long-Term Gains	_
Net Unrealized Gains (Losses)	5,403
Capital Loss Carryforwards	(10,647)
Qualified Late-Year Losses	_
Other Temporary Differences	_
Total	(4,836)

The tax character of distributions paid was as follows:

	Year Ended November 30,	
	2023 Amount (\$000)	2022 Amount (\$000)
Ordinary Income*	2,061	1,062
Long-Term Capital Gains	_	_
Total	2,061	1,062

* Includes short-term capital gains, if any.

As of November 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	87,653
Gross Unrealized Appreciation	9,740
Gross Unrealized Depreciation	(4,337)
Net Unrealized Appreciation (Depreciation)	5,403

F. During the year ended November 30, 2023, the fund purchased \$53,740,000 of investment securities and sold \$40,012,000 of investment securities, other than temporary cash investments. Purchases and sales include \$0 and \$17,558,000, 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 November 30, 2023, such purchases were \$440,000 and sales were \$218,000, resulting in net realized loss of \$50,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

G. Capital shares issued and redeemed were:

	Year Ended No	Year Ended November 30,	
	2023 Shares (000)	2022 Shares (000)	
Issued	315	425	
Issued in Lieu of Cash Distributions	_	_	
Redeemed	(180)	(110)	
Net Increase (Decrease) in Shares Outstanding	135	315	

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

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

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

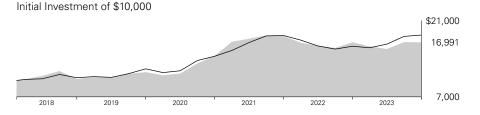
At November 30, 2023, one shareholder was a record or beneficial owner of 40% of the fund's net assets. If this shareholder were to redeem its investment in the fund, the redemption might result in an increase in the fund's expense ratio, cause the fund to incur higher transaction costs, or lead to the realization of taxable capital gains.

I. Management has determined that no events or transactions occurred subsequent to November 30, 2023, that would require recognition or disclosure in these financial statements.

U.S. Momentum Factor ETF

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: February 13, 2018, Through November 30, 2023

			Total Returns hber 30, 2023	
	One Year	Five Years	Since Inception (2/13/2018)	Final Value of a \$10,000 Investment
U.S. Momentum Factor ETF Net Asset Value	-0.06%	10.60%	9.58%	\$16,991
U.S. Momentum Factor ETF Market Price	0.02	10.60	9.59	17,001
	12.61	11.77	11.02	18,324

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

Cumulative Returns of ETF Shares: February 13, 2018, Through November 30, 2023

	One Year	Five Years	Since Inception (2/13/2018)
U.S. Momentum Factor ETF Market Price	0.02%	65.53%	70.01%
U.S. Momentum Factor ETF Net Asset Value	-0.06	65.49	69.91
Russell 3000 Index	12.61	74.44	83.24

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

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 November 30, 2023

Basic Materials	2.0%
Consumer Discretionary	18.7
Consumer Staples	2.2
Energy	5.8
Financials	7.2
Health Care	10.0
Industrials	23.5
Real Estate	0.8
Technology	27.5
Telecommunications	2.0
Utilities	0.3

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

Financial Statements

Schedule of Investments As of November 30, 2023

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third guarters 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)
Common Stocks (99.5%)			* Abercrombie & Fitch Co.		
Basic Materials (2.0%) Linde plc Reliance Steel & Aluminum Co. Boise Cascade Co. Southern Copper Corp.	2,134 2,617 5,880 7,945	883 720 643 572	Class A PVH Corp. Toll Brothers Inc. * SkyWest Inc. * elf Beauty Inc. * Carnival Corp.	9,744 7,467 8,423 15,011 5,808 44,338	740 730 723 710 686 668
NewMarket Corp. Carpenter Technology Corp. Mueller Industries Inc. Orion SA Olympic Steel Inc. Uranium Energy Corp.	1,040 5,650 9,185 13,512 5,643 48,115	552 400 381 322 319 314	Rush Enterprises Inc. Class A * ACV Auctions Inc. Class A Meritage Homes Corp.	14,644 16,305 41,046 4,499 51,370	660 647 642 636 586
Hawkins Inc. Worthington Industries Inc. Materion Corp. Koppers Holdings Inc. Haynes International Inc. Vanhoe Electric Inc. * Ecovyst Inc.	4,908 3,507 1,987 4,421 3,438 13,312 12,647	302 251 225 200 169 151 120	Inc. * Green Brick Partners Inc. Ross Stores Inc. Winmark Corp. Inter Parfums Inc. Wingstop Inc. * Trade Desk Inc. Class A * Duolingo Inc.	2,757 12,063 4,229 1,271 4,280 2,175 6,601 2,160	579 572 551 547 536 523 465 459
UFP Industries Inc. * Energy Fuels Inc.	897 11,360 _	98 90 6,712	Hyatt Hotels Corp. Class A * Cars.com Inc. 2 * Floor & Decor Holdings Inc.	3,855 23,004	442 428
Consumer Discretionary (18.6%) * Uber Technologies Inc. * Netflix Inc. * Booking Holdings Inc. * DraftKings Inc. Class A TJX Cos. Inc. * Chipotle Mexican Grill Inc. Lennar Corp. Class A PulteGroup Inc.	85,046 6,924 942 49,930 20,607 817 13,350 18,485	4,795 3,282 2,944 1,909 1,816 1,799 1,708 1,634	Wynn Resorts Ltd. * Arlo Technologies Inc. * Carvana Co. * Instructure Holdings Inc.	4,635 5,480 12,320 4,966 44,455 12,766 15,292 14,957	425 424 422 419 404 400 394
 Deckers Outdoor Corp. O'Reilly Automotive Inc. NVR Inc. DR Horton Inc. Amazon.com Inc. Spotify Technology SA 	2,454 1,604 238 10,820 9,133 7,122	1,629 1,576 1,465 1,381 1,334 1,318	Class A International Game Technology plc Steelcase Inc. Class A	15,741 14,118 29,957 25,656	383 377 369 366
Tempur Sealy International Inc. * Royal Caribbean Cruises Ltd. * Skechers USA Inc. Class A	31,205 10,375 18,828	1,258 1,115 1,109	Class A Integral Ad Science Holding Corp. U-Haul Holding Co. (XNYS)	3,886 23,899 6,116 46,032	351 349 346 332
BorgWarner Inc. (XNYS) M/I Homes Inc. Wayfair Inc. Class A Copart Inc. Light & Wonder Inc.	27,825 8,305 14,707 15,885 8,541	937 876 821 798 755	 Life Time Group Holdings Inc. 2 Dillard's Inc. Class A Cooper-Standard Holdings 	40,032 21,698 916 17,075	329 318 303
Light & vonder mc.	0,041	755	* Coursera Inc.	14,960 10,734	295 293

	Shares	Market Value• (\$000)
 * Skyline Champion Corp. * PowerSchool Holdings Inc. 	4,542	273
Class A * Cardlytics Inc. Bloomin' Brands Inc. * Tri Pointe Homes Inc. Lennar Corp. Class B	11,501 31,059 10,122 7,823 1,921	268 247 236 228 220
Penske Automotive Group Inc. Build-A-Bear Workshop Inc. * Nerdy Inc. * XPEL Inc. Alta Equipment Group Inc. * Grand Canyon Education Inc.	1,468 8,648 73,367 4,108 18,071 1,246	219 211 191 188 172 170
 Ollie's Bargain Outlet Holdings Inc. Century Communities Inc. OneSpaWorld Holdings Ltd. Upbound Group Inc. Madison Square Garden 	2,303 2,263 13,515 5,510	169 163 163 160
Sports Corp. HNI Corp. Holley Inc. Solo Brands Inc. Class A Cavco Industries Inc. Laureate Education Inc.	892 3,683 34,050 26,282 475 10,142	151 144 141 137 134 133
Perdoceo Education Corp. * Adtalem Global Education Inc. * AutoNation Inc. Haverty Furniture Cos. Inc. Williams-Sonoma Inc. * Red Robin Gourmet Burgers	7,654 2,323 937 3,596 585	133 132 127 113 110
 Inc. Chuy's Holdings Inc. Kura Sushi USA Inc. Class A Lithia Motors Inc. Red Rock Resorts Inc. 	12,355 3,061 1,691 381	109 108 106 102
Class A New York Times Co. Class A Aaron's Co. Inc. A-Mark Precious Metals Inc.	2,242 1,586 8,255 2,434	100 75 73 70
 Atlanta Braves Holdings Inc. Class A Gannett Co. Inc. Traeger Inc. MasterCraft Boat Holdings 	1,724 37,522 21,935	70 69 49
Inc.	937_	19
Consumer Staples (2.2%) McKesson Corp. * BellRing Brands Inc. Mondelez International Inc.	3,264 23,867	62,171 1,536 1,263
Class A * Celsius Holdings Inc. * Performance Food Group Co. Cencora Inc. * Vita Coco Co. Inc. * Sprouts Farmers Market Inc.	15,611 19,299 7,248 2,217 15,529 7,697	1,109 955 471 451 436 332
Spectrum Brands Holdings Inc. Andersons Inc. John B Sanfilippo & Son Inc. Vector Group Ltd. Coca-Cola Consolidated Inc.	3,857 4,366 1,553 8,562 114	267 218 143 92 84 7,357

	Shares	Market Value• (\$000)
Energy (5.8%) Marathon Petroleum Corp. Phillips 66 TechnipFMC plc Archrock Inc. Schlumberger NV	20,778 12,037 62,347 70,640 18,732	3,100 1,552 1,292 1,024 975
 Helix Energy Solutions Group Inc. Weatherford International plc Warrior Met Coal Inc. Tidewater Inc. Newpark Resources Inc. Gulfport Energy Corp. Noble Corp. plc PBF Energy Inc. Class A Par Pacific Holdings Inc. Oceaneering International Inc. ChampionX Corp. Oil States International Inc. Equitrans Midstream Corp. Expro Group Holdings NV Elupage Energy Inc. 	100,645 10,267 11,778 10,642 90,562 4,330 12,297 11,856 14,554 23,584 15,929 3,552 52,184 36,539 20,158 12,364	938 931 659 629 593 567 526 499 487 467 379 360 343 314 310
 Fluence Energy Inc. Alpha Metallurgical Resources Inc. Arcosa Inc. Civitas Resources Inc. 	1,046 3,485 3,644	294 259 250
Ramaco Resources Inc. Class A TETRA Technologies Inc. Seadrill Ltd. SunCoke Energy Inc. Centrus Energy Corp. Class A Permian resources Corp. Borr Drilling Ltd. REX American Resources Corp.	13,301 45,147 4,561 20,095 3,459 12,654 23,651 2,764	222 213 202 187 173 166 149 136
Core Laboratories Inc. * Hallador Energy Co. Arch Resources Inc. Evolution Petroleum Corp.	7,574 9,611 590 9,923 _	134 121 98 59
Financials (7.1%) JPMorgan Chase & Co. Arthur J Gallagher & Co. First Citizens BancShares Inc. Class A	15,586 8,118 889	19,247 2,433 2,021 1,305
Unum Group Kinsale Capital Group Inc. Ares Management Corp.	25,242 2,406	1,085 842
Class A Apollo Global Management Inc. * Arch Capital Group Ltd.	7,269 8,797 9,558	816 809 800
 Oscar Health Inc. Class A XP Inc. Class A NU Holdings Ltd. Class A SoFi Technologies Inc. RenaissanceRe Holdings Ltd. Primerica Inc. Federal Agricultural Mortgage 	84,660 30,470 86,387 87,922 2,956 2,832	720 710 703 641 634 593
Corp. Class C MGIC Investment Corp. * Genworth Financial Inc.	3,426 29,657	568 522
Class A * Riot Platforms Inc. * Ryan Specialty Holdings Inc.	87,946 41,286 11,243	518 518 516

		Shares	Market Value• (\$000)
	OneMain Holdings Inc.	12,121	513
*	Interactive Brokers Group Inc. Class A Goosehead Insurance Inc.	6,196	482
	Class A New York Community	6,434	472
* *,1 *	Bancorp Inc. UWM Holdings Inc. UWM Holdings Corp. Bancorp Inc. City Holding Co. Aflac Inc. Radian Group Inc. HCI Group Inc.	48,711 41,927 15,330 74,584 9,839 3,859 4,455 12,966 3,466	458 448 410 406 384 372 368 333 294
*	Nelnet Inc. Class A Pathward Financial Inc. Evercore Inc. Class A eHealth Inc. RLI Corp. Assetmark Financial Holdings	3,346 5,190 1,473 25,449 1,216	281 257 217 189 165
*	Inc. Brown & Brown Inc. World Acceptance Corp. Old Republic International	6,179 1,867 1,118	158 140 125
*	Corp. Mr Cooper Group Inc. Universal Insurance Holdings	3,964 1,833	116 111
*	Inc. Perella Weinberg Partners Enova International Inc.	6,358 9,191 2,434 _	108 108 100
He	ealth Care (9.9%)		23,769
* * * *	Eli Lilly & Co. Boston Scientific Corp. Intuitive Surgical Inc. Vertex Pharmaceuticals Inc. Cardinal Health Inc. Medpace Holdings Inc.	4,972 36,710 5,450 2,405 7,521 2,715	2,939 2,052 1,694 853 805 735
* * * * *	Regeneron Pharmaceuticals Inc. Arcellx Inc. Cymabay Therapeutics Inc. Exact Sciences Corp. Nuvalent Inc. Class A Cabaletta Bio Inc.	756 11,866 31,542 9,322 8,814 34,336	623 623 603 597 576 551
~ * * *	Amphastar Pharmaceuticals Inc. Biohaven Ltd. Ideaya Biosciences Inc. Bridgebio Pharma Inc. Arcturus Therapeutics	9,571 15,195 15,928 16,741	539 506 501 481
* * * * * * * * * * * *	Holdings Inc. Disc Medicine Inc. Crinetics Pharmaceuticals Inc. ADMA Biologics Inc. Tenet Healthcare Corp. RxSight Inc. Quanterix Corp. MiMedx Group Inc. Ardelyx Inc. UFP Technologies Inc. Biomea Fusion Inc. Vaxcyte Inc. Krystal Biotech Inc. Insmed Inc. NeoGenomics Inc.	20,110 8,419 14,228 122,063 6,536 14,535 18,109 54,975 93,845 2,400 25,808 7,395 3,574 14,333 19,337	481 465 452 451 438 434 427 423 399 389 389 383 373 359 351
		,,	50.

		Shares	Market Value• (\$000)
*	Aurinia Pharmaceuticals Inc.	40,485	350
*	Immunovant Inc.	8,855	346
*	REVOLUTION Medicines Inc.	8,855 14,729	344
*	Mirum Pharmaceuticals Inc.	10,720	344
*	10X Genomics Inc. Class A	7,781	339
*	Roivant Sciences Ltd.	35,181	336
*	Exelixis Inc.	15,349	335
*	Amneal Pharmaceuticals Inc.	77,064	332
*	Amicus Therapeutics Inc.	28,974	319
*	Protagonist Therapeutics Inc.	17,469	318
*	Viking Therapeutics Inc.	25,328	310
*	89bio Inc.	37,680	303
*	ANI Pharmaceuticals Inc.	5,975	298
*	DaVita Inc.	2,865	291
*	PetIQ Inc.	16,091	280
*	Hims & Hers Health Inc.	31,054	276
*	EyePoint Pharmaceuticals Inc.	43,078	269
*	RadNet Inc.	8,070	268
*	SI-BONE Inc.	13,184	250
*	Tango Therapeutics Inc.	31,995	243
*	Alphatec Holdings Inc.	19,598	233
*	Vera Therapeutics Inc.	17,199	233
	Haemonetics Corp.	2,872	232
÷	Align Technology Inc.	1,071	229
*,1	PDS Biotechnology Corp.	43,145	227
÷	Penumbra Inc.	1,017	226
	Tactile Systems Technology	10 010	224
*	Inc.	16,810	224 219
*	Vericel Corp.	6,150	219
*	Madrigal Pharmaceuticals Inc.	1,055 29,281	
*	Liquidia Corp.	29,281 53,040	210 204
*	Inozyme Pharma Inc. Kiniksa Pharmaceuticals Ltd.	55,040	204
	Class A	12,347	200
*	Marinus Pharmaceuticals Inc.	29,120	196
*,1	UroGen Pharma Ltd.	14,756	195
*	LifeStance Health Group Inc.	28,003	192
*	ACADIA Pharmaceuticals Inc.	8,544	190
*	Voyager Therapeutics Inc.	25,032	182
*	Axsome Therapeutics Inc.	2,596	175
*	Collegium Pharmaceutical	2,000	
	Inc.	6,715	172
*	TG Therapeutics Inc.	13,167	169
	Encompass Health Corp.	2,428	158
*	Summit Therapeutics Inc.		
	(XNMS)	76,952	156
*	Harrow Inc.	16,154	149
J	Stryker Corp.	474	140
*	Phathom Pharmaceuticals	10 5 10	107
*	Inc.	19,548	137
*	Theravance Biopharma Inc.	12,696	133
*	Ocular Therapeutix Inc.	51,856	129
*	Brookdale Senior Living Inc.	21,892	116
*	Aldeyra Therapeutics Inc. KalVista Pharmaceuticals Inc.	41,019	114
*		12,999	110 103
*	scPharmaceuticals Inc.	18,971	
*	X4 Pharmaceuticals Inc.	127,934	100
*	HealthEquity Inc.	1,404	94 94
*	OraSure Technologies Inc.	12,815	94
	Prestige Consumer Healthcare Inc.	1,487	85
*	4D Molecular Therapeutics	1,407	00
	Inc.	4,177	53
*	Assertio Holdings Inc.	11,023	11
	-	-	33,110
			00,110

		Shares	Market Value• (\$000)			Shares	Market Value• (\$000)
In	dustrials (23.4%)				Greenbrier Cos. Inc.	11,539	435
	General Electric Co.	40,734	4,961		Watsco Inc.	1,138	435
	Eaton Corp. plc	16,257	3,702		AAON Inc.	6,942	435
	Parker-Hannifin Corp.	6,361	2,755		H&E Equipment Services Inc.	9,802	434
	FedEx Corp.	10,495	2,716	*	Evolv Technologies Holdings		
	Trane Technologies plc	9,924	2,237		_ Inc.	106,927	428
	Caterpillar Inc.	6,608	1,657	*	Teekay Corp.	60,990	421
	EMCOR Group Inc.	7,471	1,588		Modine Manufacturing Co. Primoris Services Corp.	8,454 13,623	416 414
	TransDigm Group Inc. Allison Transmission Holdings	1,552	1,494	*	SPX Technologies Inc.	4,770	407
	Inc.	26,587	1,422		Covenant Logistics Group Inc.	9,347	398
	Simpson Manufacturing Co.	20,007	.,		Pentair plc	6,163	398
	Inc.	8,235	1,375		ICF International Inc.	2,798	392
	Comfort Systems USA Inc.	6,254	1,211	*	StoneCo. Ltd. Class A	25,106	392
*	Saia Inc.	3,077	1,201	*	Affirm Holdings Inc.	11,280	388
ž	Fair Isaac Corp.	1,058	1,151	*	Thermon Group Holdings Inc.	12,821	387
	XPO Inc.	13,277	1,146		Standex International Corp.	2,863	383
*	Crane NXT Co. Builders FirstSource Inc.	21,474	1,105	-	American Woodmark Corp.	5,213	377
	United Rentals Inc.	7,743 2,164	1,038 1,030	*	Quanta Services Inc. Aurora Innovation Inc.	1,991 165,894	375 363
	PACCAR Inc.	10,776	989		McGrath RentCorp.	3,497	356
	Badger Meter Inc.	6,112	901		Watts Water Technologies Inc.	0,407	000
	Dorian LPG Ltd.	21,138	895		Class A	1,833	353
	Griffon Corp.	19,223	894	*	FleetCor Technologies Inc.	1,420	341
	WW Grainger Inc.	1,109	872		Encore Wire Corp.	1,812	334
*	Boeing Co.	3,643	844	*	Joby Aviation Inc.	56,016	334
	Applied Industrial	4 0 0 0	770	*	JELD-WEN Holding Inc.	20,839	333
*	Technologies Inc.	4,866	779	*	PGT Innovations Inc.	10,345	333
	API Group Corp. Carrier Global Corp.	24,687 14,120	749 734		AAR Corp.	4,739	328
*	Axon Enterprise Inc.	3,190	734		Belden Inc. WESCO International Inc.	4,870 2,019	324 315
*	Huron Consulting Group Inc.	7,040	733	*	GMS Inc.	4,439	300
	Owens Corning	5,239	710	*	Manitowoc Co. Inc.	20,467	293
*	Atkore Inc.	5,126	666		Wabash National Corp.	12,458	273
*	TopBuild Corp.	2,215	655		Flex LNG Ltd.	9,387	272
*	Trex Co. Inc.	9,291	653	*	Construction Partners Inc.		
	Eagle Materials Inc.	3,559	644		Class A	6,283	264
*	nVent Electric plc	12,036	641		A O Smith Corp.	3,452	260
	ATI Inc. Hubbell Inc.	14,159 2,057	622 617		CSW Industrials Inc. CRA International Inc.	1,459 2,627	259 249
	Vontier Corp.	18,184	613	*	Leonardo DRS Inc.	13,073	243
	Teekay Tankers Ltd. Class A	12,255	609		Federal Signal Corp.	3,468	239
	Curtiss-Wright Corp.	2,803	600	*	TriNet Group Inc.	2,063	239
	International Seaways Inc.	13,152	600	*	Kratos Defense & Security		
	EnPro Industries Inc.	4,532	582		Solutions Inc.	12,449	237
	Terex Corp.	11,646	576	*	Flywire Corp.	9,711	226
^, I	Archer Aviation Inc. Class A	96,334	576		AZEK Co. Inc.	6,190	213
	Lennox International Inc. MSA Safety Inc.	1,405 3,185	571 555	*	Moog Inc. Class A Gibraltar Industries Inc.	1,463 2,976	205 200
*	Fiserv Inc.	3,924	555	*,	¹ Eos Energy Enterprises Inc.	180,638	199
	Schneider National Inc.	3,324	512		Esab Corp.	2,577	199
	Class B	22,142	510	*	AeroVironment Inc.	1,399	193
	Nordic American Tankers Ltd.	130,225	505	*	Shift4 Payments Inc. Class A	2,842	187
	FTAI Aviation Ltd.	12,196	503	*	MYR Group Inc.	1,474	183
*	Limbach Holdings Inc.	13,041	497		Old Dominion Freight Line		
	Booz Allen Hamilton Holding	2 0 2 7	402	*	Inc.	414	161
*	Corp. CBIZ Inc.	3,937 8,508	493 493	*	V2X Inc. Mirion Technologies Inc.	3,751 17.632	159 157
*	Sterling Infrastructure Inc.	7,653	493 486		Maximus Inc.	1,817	157
*	Blue Bird Corp.	25,318	483		Installed Building Products	1,017	102
*	Remitly Global Inc.	22,382	482		Inc.	1,001	151
	Powell Industries Inc.	5,721	476	*	AvidXchange Holdings Inc.	13,927	149
	GATX Corp.	4,362	475		Scorpio Tankers Inc.	2,645	145
*	Cimpress plc	6,686	471		EnerSys	1,557	138
	Woodward Inc.	3,442	465	*	LSI Industries Inc. Hudson Technologies Inc.	10,367	136
	Hyster-Yale Materials Handling Inc.	9,588	457		Tennant Co.	10,892 1,489	135 127
	nananng me.	0,000	+57		ionnunt oo.	1,400	127

		Shares	Market Value• (\$000)
	Enerpac Tool Group Corp. Mueller Water Products Inc.	4,525	124
* * * * * *	Class A Class A CECO Environmental Corp. Patrick Industries Inc. DXP Enterprises Inc. AECOM Legalzoom.com Inc. GXO Logistics Inc. Astronics Corp. VSE Corp. Columbus McKinnon Corp. Verisk Analytics Inc. Matson Inc. Ardmore Shipping Corp. ESCO Technologies Inc. ArcBest Corp. Vicor Corp. Preformed Line Products Co. OSI Systems Inc. DHT Holdings Inc.	9,243 6,327 1,426 3,764 1,147 8,748 6,646 1,619 2,747 982 6,494 827 714 2,290 586 568 5,994	123 122 117 100 102 101 100 99 98 96 95 94 88 87 85 84 73 70 60
R,	eal Estate (0.8%)		78,208
не * * *	Forestate (0.8%) Forestar Group Inc. Zillow Group Inc. Class C Opendoor Technologies Inc. Redfin Corp. St. Joe Co. eXp World Holdings Inc. DigitalBridge Group Inc.	16,980 12,376 141,077 54,637 6,680 14,968 8,042	518 507 425 381 343 181 139
Те	chnology (27.4%)		2,494
10 * * * * * * *	Cadence Design Systems Inc. Palo Alto Networks Inc. Meta Platforms Inc. Class A NVIDIA Corp. Broadcom Inc. Synopsys Inc. Oracle Corp. Advanced Micro Devices Inc. Lam Research Corp. Applied Materials Inc. Adobe Inc. Alphabet Inc. Class C ServiceNow Inc. Salesforce Inc. KLA Corp. Workday Inc. Class A Jabil Inc. Intel Corp. Alphabet Inc. Class A Microsoft Corp. Marvell Technology Inc. Palantir Technology Inc.	17,169 15,269 13,148 8,822 3,978 6,736 30,865 29,373 4,522 19,888 4,695 18,993 3,460 8,605 3,789 3,460 8,605 3,789 39,118 12,633 4,167 27,850	4,692 4,506 4,301 4,126 3,683 3,559 3,587 3,559 3,237 2,979 2,869 2,544 2,373 2,168 2,064 1,964 1,808 1,749 1,674 1,552 1,169
* * * * * * * * * *	Class A Nutanix Inc. Class A Rambus Inc. HubSpot Inc. Insight Enterprises Inc. Axcelis Technologies Inc. Onto Innovation Inc. Workiva Inc. ON Semiconductor Corp. MongoDB Inc. SPS Commerce Inc. AppLovin Corp. Class A	58,290 25,094 15,931 1,952 5,760 6,641 5,662 7,795 10,499 1,793 3,976 18,155	1,169 1,081 1,078 964 872 825 798 750 749 745 685 680

		Shares	Market Value• (\$000)
*	IonQ Inc. MicroStrategy Inc. Class A C3.ai Inc. Class A	55,179 1,275 21,333	675 635 621
* * *	Fastly Inc. Class A Navitas Semiconductor Corp. Weave Communications Inc. Vertiv Holdings Co. Class A	31,687 75,519 54,225 11,677	526 524 512 510
*	Cleanspark Inc. Fabrinet Bit Digital Inc. Kyndryl Holdings Inc.	76,990 2,915 177,739 25,478	480 472 459 459
* * *	Freshworks Inc. Class A Confluent Inc. Class A Elastic NV Lattice Semiconductor Corp.	22,686 21,154 5,525 7,177	454 449 444 420
* *,1 * *	Manhattan Associates Inc. Cipher Mining Inc. Intapp Inc. Gartner Inc.	1,828 146,186 10,742 921	408 405 403 401
* * *	AvePoint Inc. Applied Digital Corp. Braze Inc. Class A Schrodinger Inc.	47,504 82,733 6,984 12,010	389 386 384 373
*	DoorDash Inc. Class A CTS Corp. Adeia Inc.	3,940 9,250 38,432	370 358 353
* * *	PDF Solutions Inc. Parsons Corp. Procore Technologies Inc. ANSYS Inc.	11,465 5,515 5,828 1,166	344 344 344 342
* *	Yext Inc. Aehr Test Systems PTC Inc. Bentley Systems Inc. Class B	49,338 14,200 2,045 6,184	327 326 322 322
* * *	Appfolio Inc. Class A Innodata Inc. PROS Holdings Inc. Terawulf Inc.	1,692 46,661 7,767 243,733	320 315 284 283
* *	Intuit Inc. Sprinklr Inc. Class A Digimarc Corp.	483 17,543 8,071 3,036	276 275 270 261
*	Agilysys Inc. ACM Research Inc. Class A Monolithic Power Systems Inc.	14,642 436	244 239
* * * * * *	Guidewire Software Inc. LiveRamp Holdings Inc. Altair Engineering Inc. Class A Squarespace Inc. Class A PAR Technology Corp. Dynatrace Inc. DoubleVerify Holdings Inc.	2,383 6,370 2,778 7,085 4,789 3,069 4,749	238 211 201 199 176 164 158
* *	Credo Technology Group Holding Ltd. Allegro MicroSystems Inc.	8,322 5,295	149 144 129
* * * *	Cohu Inc. Alkami Technology Inc. N-Able Inc. Magnite Inc. Okta Inc. Western Digital Corp. SMART Global Holdings Inc.	4,075 5,614 10,569 13,796 1,609 2,120 5,971	129 128 126 111 108 102 100
*,1 *	Sapiens International Corp. NV BigBear.ai Holdings Inc. CACI International Inc.	3,831 56,872	99 97
	Class A	288	92

	Shares	Market Value• (\$000)
* Pinterest Inc. Class A	2,639	90
* Eventbrite Inc. Class A	10,811	76
 * Asure Software Inc. 	8,943	71
NVE Corp.	917	66
 inTEST Corp. 	4,403	58
		91,470
Telecommunications (2.0%)		
Comcast Corp. Class A	48,262	2,022
 * Arista Networks Inc. 	7,195	1,581
* Charter Communications Inc.	0.000	4 4 4 7
Class A	2,866	1,147
Telephone and Data Systems	31,860	627
Bel Fuse Inc. Class B	7,858	425
* Boku Inc.	2,695	281
* Extreme Networks Inc.	12,830	207
Spok Holdings Inc.	12,244	205
Motorola Solutions Inc.	459	148
InterDigital Inc.	1,021	102
	-	6,745
Utilities (0.3%)		0,7.10
* Clean Harbors Inc.	4,468	723
* Enviri Corp.	54,965	324
	-	1,047
Total Common Stocks (Cost \$29	332,330	

	Shares	Market Value• (\$000)
Temporary Cash Investments (1.3%)	
Money Market Fund (1.3%) ^{2,3} Vanguard Market Liquidity Fund, 5.438% (Cost \$4,314)	43,150	4,314
Total Investments (100.8%) (Cost \$296,168)		336,644
Other Assets and Liabilities—Net (-0.8%)		(2,807)
Net Assets (100%)		333,837
Cost is in \$000		

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 \$2,865,000.

2 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.

3 Collateral of \$3,281,000 was received for securities on loan.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts

				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini S&P 500 Index	December 2023	5	1,144	15
Micro E-mini S&P 500 Index	December 2023	1	23	1

16

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Assets and Liabilities

As of November 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value ¹	
Unaffiliated Issuers (Cost \$291,854)	332,330
Affiliated Issuers (Cost \$4,314)	4,314
Total Investments in Securities	336,644
Investment in Vanguard	11
Cash	24
Cash Collateral Pledged—Futures Contracts	66
Receivables for Investment Securities Sold	1,199
Receivables for Accrued Income	250
Variation Margin Receivable—Futures Contracts	4
Total Assets	338,198
Liabilities	
Payables for Investment Securities Purchased	1,063
Collateral for Securities on Loan	3,281
Payables to Vanguard	17
Total Liabilities	4,361
Net Assets	333,837

1 Includes \$2,865,000 of securities on loan.

At November 30, 2023, net assets consisted of:

Paid-in Capital	345,392
Total Distributable Earnings (Loss)	(11,555)
Net Assets	333,837
Net Assets	
Applicable to 2,775,000 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	333,837
Net Asset Value Per Share	\$120.30

Statement of Operations

Investment Income Income Dividends1 3,395 Interest2 67 Securities Lending—Net 208 Total Income 3,670 Expenses 3,670 Expenses 89 Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Trustees' Fees and Expenses Other Expenses 401 Expenses Paid Indirectly (1) Net Expenses 400 Net Investment Income 3,270 Realized Net Gain (Loss) (5,167) Investment Securities Sold2.3 (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 103 Investment Securities2 3,350		Year Ended November 30, 2023
Income 3,395 Dividends1 3,395 Interest2 67 Securities Lending—Net 208 Total Income 3,670 Expenses 3,670 Expenses 89 Management Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Tustees' Fees and Expenses Other Expenses 17 Total Expenses 400 Represes 400 Net Investment Income 3,270 Realized Net Gain (Loss) (5,167) Investment Securities Sold2.3 (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311		(\$000)
Dividends13,395Interest267Securities Lending—Net208Total Income3,670Expenses89Investment Advisory Services89Management and Administrative215Marketing and Distribution17Custodian Fees1Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses401Expenses400Net Expenses400Net Expenses400Realized Net Gain (Loss)(5,167)Investment Securities Sold2:3(5,064)Change in Unrealized Appreciation (Depreciation)3,311Investment Securities23,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Investment Income	
Interest ² 67 Securities Lending—Net 208 Total Income 3,670 Expenses The Vanguard Group—Note B Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 117 Custodian Fees 11 Auditing Fees 228 Shareholders' Reports 238 Shareholders' Reports 34 Trustees' Fees and Expenses — — Other Expenses 117 Total Expenses 117 Total Expenses 117 Total Expenses 117 Net Expenses 117 Investment Income 3,270 Realized Net Gain (Loss) Investment Securities Sold ^{2,3} (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,311	Income	
Securities Lending—Net 208 Total Income 3,670 Expenses 89 The Vanguard Group—Note B 10 Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Trustees' Fees and Expenses Other Expenses 17 Total Expenses 401 Expenses Paid Indirectly (1) Net Expenses Paid Indirectly (1) Net Expenses One 3,270 Realized Net Gain (Loss) (5,167) Investment Securities Sold2.3 (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Dividends ¹	3,395
Total Income 3,670 Expenses The Vanguard Group—Note B Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Trustees' Fees and Expenses Other Expenses 17 Total Expenses 401 Expenses Paid Indirectly (1) Net Expenses 400 Net Investment Income 3,270 Realized Net Gain (Loss) (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Interest ²	67
Expenses The Vanguard Group—Note B Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Trustees' Fees and Expenses Other Expenses 17 Total Expenses 401 Expenses Paid Indirectly (1) Net Expenses 400 Net Investment Income 3,270 Realized Net Gain (Loss) (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Securities Lending—Net	208
The Vanguard Group—Note B Investment Advisory Services 89 Management and Administrative 215 Marketing and Distribution 17 Custodian Fees 1 Auditing Fees 28 Shareholders' Reports 34 Trustees' Fees and Expenses Other Expenses 17 Total Expenses 401 Expenses Paid Indirectly (1) Net Expenses 400 Net Investment Income 3,270 Realized Net Gain (Loss) (103 Investment Securities Sold2.3 (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Total Income	3,670
Investment Advisory Services89Management and Administrative215Marketing and Distribution17Custodian Fees1Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,311Investment Securities23,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Expenses	
Management and Administrative215Marketing and Distribution17Custodian Fees1Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)103Investment Securities Sold ^{2,3} (5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,311Investment Securities ² 3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	The Vanguard Group—Note B	
Marketing and Distribution17Custodian Fees1Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,311Investment Securities ² 3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Investment Advisory Services	89
Custodian Fees1Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Management and Administrative	215
Auditing Fees28Shareholders' Reports34Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(1)Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Marketing and Distribution	17
Shareholders' Reports34Trustees' Fees and Expenses—Other Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)[5,167)Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Custodian Fees	1
Trustees' Fees and ExpensesOther Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Auditing Fees	28
Other Expenses17Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Investment Securities Sold ^{2,3} (5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Shareholders' Reports	34
Total Expenses401Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)(5,167)Investment Securities Sold ^{2,3} (5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Trustees' Fees and Expenses	
Expenses Paid Indirectly(1)Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)101Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)103Investment Securities23,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Other Expenses	17
Net Expenses400Net Investment Income3,270Realized Net Gain (Loss)100Investment Securities Sold2.3(5,167)Futures Contracts103Realized Net Gain (Loss)(5,064)Change in Unrealized Appreciation (Depreciation)3,350Futures Contracts(39)Change in Unrealized Appreciation (Depreciation)3,311	Total Expenses	401
Net Investment Income 3,270 Realized Net Gain (Loss) 100 Investment Securities Sold2.3 (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Expenses Paid Indirectly	(1)
Realized Net Gain (Loss) Investment Securities Sold ^{2,3} Futures Contracts Realized Net Gain (Loss) Change in Unrealized Appreciation (Depreciation) Investment Securities ² Stutures Contracts (39) Change in Unrealized Appreciation (Depreciation) Stutures Contracts (39) Change in Unrealized Appreciation (Depreciation)	Net Expenses	400
Investment Securities Sold ^{2,3} (5,167) Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Net Investment Income	3,270
Futures Contracts 103 Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 3,350 Investment Securities ² 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Realized Net Gain (Loss)	
Realized Net Gain (Loss) (5,064) Change in Unrealized Appreciation (Depreciation) 1 Investment Securities ² 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Investment Securities Sold ^{2,3}	(5,167)
Change in Unrealized Appreciation (Depreciation) Investment Securities ² 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Futures Contracts	103
Investment Securities ² 3,350 Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Realized Net Gain (Loss)	(5,064)
Futures Contracts (39) Change in Unrealized Appreciation (Depreciation) 3,311	Change in Unrealized Appreciation (Depreciation)	
Change in Unrealized Appreciation (Depreciation) 3,311	Investment Securities ²	3,350
	Futures Contracts	(39)
Net Increase (Decrease) in Net Assets Resulting from Operations 1,517	Change in Unrealized Appreciation (Depreciation)	3,311
	Net Increase (Decrease) in Net Assets Resulting from Operations	1,517

1 Dividends are net of foreign withholding taxes of \$2,000.

2 Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$63,000, less than \$1,000, less than \$1,000, and less than \$1,000, respectively. Purchases and sales are for temporary cash investment purposes.

3 Includes \$18,888,000 of net gain (loss) resulting from in-kind redemptions.

Statement of Changes in Net Assets

	Year Ended November 30,		
	2023 (\$000)	2022 (\$000)	
Increase (Decrease) in Net Assets			
Operations			
Net Investment Income	3,270	3,593	
Realized Net Gain (Loss)	(5,064)	(14,964)	
Change in Unrealized Appreciation (Depreciation)	3,311	5,322	
Net Increase (Decrease) in Net Assets Resulting from Operations	1,517	(6,049)	
Distributions			
Total Distributions	(3,438)	(3,256)	
Capital Share Transactions			
Issued	189,620	147,546	
Issued in Lieu of Cash Distributions	—	_	
Redeemed	(137,717)	(45,302)	
Net Increase (Decrease) from Capital Share Transactions	51,903	102,244	
Total Increase (Decrease)	49,982	92,939	
Net Assets			
Beginning of Period	283,855	190,916	
End of Period	333,837	283,855	

Financial Highlights

For a Share Outstanding		Year Ended November 30,			
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$121.83	\$132.12	\$106.33	\$85.18	\$76.73
Investment Operations					
Net Investment Income ¹	1.232	2.072	1.227	.552	.985
Net Realized and Unrealized Gain (Loss) on Investments	(1.405)	(10.460)	25.325	21.279	8.336
Total from Investment Operations	(.173)	(8.388)	26.552	21.831	9.321
Distributions					
Dividends from Net Investment Income	(1.357)	(1.902)	(.762)	(.681)	(.871)
Distributions from Realized Capital Gains	—	—	—	—	—
Total Distributions	(1.357)	(1.902)	(.762)	(.681)	(.871)
Net Asset Value, End of Period	\$120.30	\$121.83	\$132.12	\$106.33	\$85.18
Total Return	-0.06%	-6.27%	25.01%	25.91%	12.25%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$334	\$284	\$191	\$58	\$32
Ratio of Total Expenses to Average Net Assets	0.13%²	0.13%	0.13%	0.13%	0.13%
Ratio of Net Investment Income to Average Net Assets	1.07%	1.76%	0.95%	0.62%	1.24%
Portfolio Turnover Rate	73% ³	88% ³	103% ³	115% ³	118%

1 Calculated based on average shares outstanding.

2 The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.13%.

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

Notes to Financial Statements

Vanguard U.S. Momentum Factor ETF is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. ETF Shares are listed for trading on Cboe BZX Exchange, Inc.; they can be purchased and sold through a broker.

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

1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been 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 objective of maintaining full exposure to the stock market while maintaining liquidity. The fund may purchase or sell futures contracts to achieve a desired level of investment, whether to accommodate portfolio turnover or cash flows from capital share transactions. 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 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 November 30, 2023, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. 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.

4. 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.

5. 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.

6. Credit Facilities and Interfund Lending Program: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the year ended November 30, 2023, the fund did not utilize the credit facilities or the Interfund Lending Program.

7. 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.

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 November 30, 2023, the fund had contributed to Vanguard capital in the amount of \$11,000, representing less than 0.01% of the fund's net assets and less than 0.01% 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 November 30, 2023, custodian fee offset arrangements reduced the fund's expenses by \$1,000 (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.

At November 30, 2023, 100% of the market value of the fund's investments and derivatives was determined based on Level 1 inputs.

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 passive foreign investment companies were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	18,879
Total Distributable Earnings (Loss)	(18,879)

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

	Amount (\$000)
Undistributed Ordinary Income	796
Undistributed Long-Term Gains	—
Net Unrealized Gains (Losses)	40,380
Capital Loss Carryforwards	(52,731)
Qualified Late-Year Losses	—
Other Temporary Differences	_
Total	(11,555)

The tax character of distributions paid was as follows:

	Year Ended November 30,	
	2023 Amount (\$000)	2022 Amount (\$000)
Ordinary Income*	3,438	3,256
Long-Term Capital Gains	_	_
Total	3,438	3,256

* Includes short-term capital gains, if any.

As of November 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	296,264
Gross Unrealized Appreciation	52,626
Gross Unrealized Depreciation	(12,246)
Net Unrealized Appreciation (Depreciation)	40,380

F. During the year ended November 30, 2023, the fund purchased \$409,738,000 of investment securities and sold \$358,165,000 of investment securities, other than temporary cash investments. Purchases and sales include \$0 and \$133,630,000, 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 November 30, 2023, such purchases were \$4,480,000 and sales were \$7,807,000, resulting in net realized loss of \$255,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

G. Capital shares issued and redeemed were:

	Year Ended No	Year Ended November 30,	
	2023 Shares (000)	2022 Shares (000)	
Issued	1,615	1,260	
Issued in Lieu of Cash Distributions	_	_	
Redeemed	(1,170)	(375)	
Net Increase (Decrease) in Shares Outstanding	445	885	

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

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

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

At November 30, 2023, one shareholder was a record or beneficial owner of 56% of the fund's net assets. If this shareholder were to redeem its investment in the fund, the redemption might result in an increase in the fund's expense ratio, cause the fund to incur higher transaction costs, or lead to the realization of taxable capital gains.

I. Management has determined that no events or transactions occurred subsequent to November 30, 2023, that would require recognition or disclosure in these financial statements.

U.S. Multifactor ETF

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.

Initial Investment of \$10,000 \$21,000 15,676 2018 2019 2020 2021 2022 2023 6,000

Cumulative Performance: February 13, 2018, Through November 30, 2023

		Average Annual Total Returns Periods Ended November 30, 2023		
	One Year	Five Years	Since Inception (2/13/2018)	Final Value of a \$10,000 Investment
U.S. Multifactor ETF Net Asset Value	3.42%	8.97%	8.07%	\$15,676
U.S. Multifactor ETF Market Price	3.49	8.97	8.08	15,686
Russell 3000 Index	12.61	11.77	11.02	18,324

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

Cumulative Returns of ETF Shares: February 13, 2018, Through November 30, 2023

	One Year	Five Years	Since Inception (2/13/2018)
U.S. Multifactor ETF Market Price	3.49%	53.68%	56.86%
U.S. Multifactor ETF Net Asset Value	3.42	53.64	56.76
Russell 3000 Index	12.61	74.44	83.24

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

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 November 30, 2023

Basic Materials	4.2%
Consumer Discretionary	20.0
Consumer Staples	5.2
Energy	14.0
Financials	14.7
Health Care	7.6
Industrials	17.4
Real Estate	0.4
Technology	14.5
Telecommunications	2.0

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

Financial Statements

Schedule of Investments As of November 30, 2023

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third guarters 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)
Common Stocks (99.5%)			* Deckers Outdoor Corp.	781	519
Basic Materials (4.2%)			DR Horton Inc.	3,979	508
Nucor Corp.	8,430	1,433	Scholastic Corp.	13,161	500
Mueller Industries Inc.	18,712	777	* NVR Inc.	76	468
UFP Industries Inc.	6,602	724	News Corp. Class B	20,287	467
Boise Cascade Co.	6,227	681	Tempur Sealy International Inc.	11,227	453
Reliance Steel & Aluminum Co.	1,681	463	Steelcase Inc. Class A	35,633	439
Steel Dynamics Inc.	3,567	425	Williams-Sonoma Inc.	2,247	421 414
CF Industries Holdings Inc.	5,473	411	 Brinker International Inc. XETL Holdings Inc. 	11,490	
Olin Corp.	8,052	380	 YETI Holdings Inc. * Cavco Industries Inc. 	9,177	391 384
Olympic Steel Inc.	6,029	341	Lennar Corp. Class B	1,358 3,331	384 382
LyondellBasell Industries NV			* G-III Apparel Group Ltd.	13,042	362
Class A	3,139	299	Ralph Lauren Corp.	2,862	370
Worthington Industries Inc.	4,051	290	Dick's Sporting Goods Inc.	2,805	365
Westlake Corp.	2,161	277	* Skyline Champion Corp.	6,004	361
Hawkins Inc.	4,468	274	* Expedia Group Inc.	2,631	358
Commercial Metals Co.	5,779 4.575	262 164	* Cars.com Inc.	18,649	347
Mosaic Co. * US Silica Holdings Inc.	4,575 13,942	164	Ethan Allen Interiors Inc.	12,934	347
AdvanSix Inc.	5.653	148	 * Urban Outfitters Inc. 	9,539	341
Cabot Corp.	1,800	148	* Malibu Boats Inc. Class A	7,633	338
United States Steel Corp.	3,434	123	Boyd Gaming Corp.	5,605	331
Timken Co.	1,097	79	* 1-800-Flowers.com Inc. Class A	37,170	328
Freeport-McMoRan Inc.	1,869	70	Murphy USA Inc.	877	324
* Clearwater Paper Corp.	1,907	67	* MasterCraft Boat Holdings Inc.	16,128	323
 TimkenSteel Corp. 	3,084	63	* AutoNation Inc.	2,365	320
Southern Copper Corp.	837	60	Winnebago Industries Inc.	4,699	304
	-	8,105	* Beazer Homes USA Inc.	11,480	302
Consumer Discretionary (19.9%)		0,105	 Tri Pointe Homes Inc. Build-A-Bear Workshop Inc. 	10,339	302 302
PulteGroup Inc.	22,672	2,005	* Green Brick Partners Inc.	12,351 6,269	297
* Booking Holdings Inc.	472	1,475	KB Home	5,614	297
 * Taylor Morrison Home Corp. 	32,447	1,463	Tapestry Inc.	8,968	284
* AutoZone Inc.	405	1,057	Upbound Group Inc.	9,542	278
Walmart Inc.	6,519	1,015	Aaron's Co. Inc.	31,399	277
 O'Reilly Automotive Inc. 	983	966	Oxford Industries Inc.	3,007	272
TJX Cos. Inc.	10,466	922	Genuine Parts Co.	2,026	269
PVH Corp.	9,348	914	* ODP Corp.	5,672	258
 * Airbnb Inc. Class A 	6,842	864	MillerKnoll Inc.	9,903	255
* M/I Homes Inc.	7,405	781	* SkyWest Inc.	5,227	247
Lennar Corp. Class A	5,299	678	Haverty Furniture Cos. Inc.	7,644	240
Academy Sports & Outdoors	40.400	000	Nexstar Media Group Inc.	1,688	240
Inc.	12,430	632	LKQ Corp.	5,102	227
* American Airlines Group Inc.	46,125	573	 * Asbury Automotive Group Inc. 	1,068	224
H&R Block Inc.	12,607	573	 * Dream Finders Homes Inc. 		
Thor Industries Inc. Meritage Homes Corp.	5,772 3,962	572 560	Class A	9,000	219
Signet Jewelers Ltd.	3,962 6,607	560 543	American Eagle Outfitters Inc.	11,444	218
Perdoceo Education Corp.	30,470	531	 Royal Caribbean Cruises Ltd. 	2,000	215
rendeed Education colp.	50,470	551	Dana Inc.	16,208	214

	Shares	Market Value• (\$000)
 Adient plc Adtalem Global Education Inc. Movado Group Inc. Guess? Inc. Monarch Casino & Resort Inc. Rush Enterprises Inc. Class A Abercrombie & Fitch Co. 	6,509 3,638 7,845 9,194 3,173 4,960	210 207 205 202 200 197
Class A Caleres Inc. * Lululemon Athletica Inc. * American Axle & Manufacturing	2,588 6,372 410	196 193 183
Holdings Inc. La-Z-Boy Inc. Matthews International Corp.	26,086 5,164	182 182
Class A BorgWarner Inc. (XNYS) PriceSmart Inc. Gap Inc. * Helen of Troy Ltd. Bath & Body Works Inc. Century Communities Inc. * Amazon.com Inc. Jack in the Box Inc.	5,060 4,986 2,456 8,157 1,474 4,655 2,066 1,000 1,821	173 168 165 164 155 152 149 146 132
Buckle Inc. Travel & Leisure Co. * elf Beauty Inc. Penske Automotive Group Inc. * Stride Inc. Dillard's Inc. Class A eBay Inc. Strategic Education Inc. Lowe's Cos. Inc. * Knowles Corp. Best Buy Co. Inc. Acushnet Holdings Corp.	3,352 3,581 1,076 849 2,101 364 3,066 1,370 597 7,422 1,626 1,806	129 128 127 127 126 126 126 122 119 118 115 102
 Hovinaian Enterprises Inc. Class A Macy's Inc. HNI Corp. Bloomin' Brands Inc. Group 1 Automotive Inc. Hibbett Inc. Sonic Automotive Inc. Class A Ulta Beauty Inc. United Airlines Holdings Inc. Inspired Entertainment Inc. Visteon Corp. Shoe Carnival Inc. Skechers USA Inc. Class A A-Mark Precious Metals Inc. Thryv Holdings Inc. International Game Technology 	1,000 1,133 6,218 2,378 3,939 326 1,445 1,644 199 2,155 10,798 709 3,339 1,245 2,480 3,978	102 99 93 92 90 86 85 85 85 85 84 81 73 71 71
Johnson Outdoors Inc. Class A * SeaWorld Entertainment Inc. Inter Parfums Inc. * Turtle Beach Corp. * Liquidity Services Inc.	2,587 1,291 1,299 497 4,094 1,969	69 68 64 62 46 38
Consumer Staples (5.1%) McKesson Corp. Altria Group Inc. Philip Morris International Inc. Kimberly-Clark Corp. Kroger Co. Vector Group Ltd. Cencora Inc.	4,555 37,558 10,649 7,154 13,716 47,001 2,285	38,697 2,143 1,579 994 885 607 503 465

	Shares	Market Value• (\$000)
Ingles Markets Inc. Class A Weis Markets Inc. * Performance Food Group Co. SpartanNash Co. Coca-Cola Consolidated Inc. Molson Coors Beverage Co.	5,274 6,685 5,529 13,979 393	431 404 360 310 289
Class B Cal-Maine Foods Inc. John B Sanfilippo & Son Inc. Dole plc * Sprouts Farmers Market Inc. Casey's General Stores Inc. ACCO Brands Corp.	3,966 4,945 1,987 11,911 2,571 183 7,859	244 237 183 137 111 50 42 9,974
Energy (13.9%) Marathon Petroleum Corp. EOG Resources Inc. Exxon Mobil Corp. Chevron Corp. Valero Energy Corp. Concere Delilion	14,525 12,289 14,352 9,830 11,095	2,167 1,512 1,474 1,412 1,391
ConocoPhillips	12,019	1,389
Phillips 66	9,004	1,160
Occidental Petroleum Corp.	17,162	1,015
Cheniere Energy Inc.	4,906	894
CONSOL Energy Inc.	5,924	632
Liberty Energy Inc.	27,563	547
Coterra Energy Inc.	20,697	543
Chord Energy Corp.	3,334	541
* Weatherford International plc	5,663	514
* Par Pacific Holdings Inc.	13,296	456
ChampionX Corp.	15,026	441
Warrior Met Coal Inc.	7,747	434
Diamondback Energy Inc.	2,796	432
California Resources Corp.	8,446	432
Range Resources Corp.	13,191	429
PBF Energy Inc. Class A	9,452	420
RPC Inc.	56,608	410
SunCoke Energy Inc.	44,096	410
Matador Resources Co.	6,425	372
Helmerich & Payne Inc.	10,000	362
* Gulfport Energy Corp.	2,640	362
HF Sinclair Corp.	6,606	347
CVR Energy Inc.	10,738	341
Murphy Oil Corp.	7,970	341
Civitas Resources Inc.	4,744	326
 ProPetro Holding Corp. Southwestern Energy Co. 	35,629 48,377	325 319
* Newpark Resources Inc.	42,333	294
Arch Resources Inc.	1,761	292
Permian resources Corp.	22,121	291
Kinetik Holdings Inc.	7,643	278
EQT Corp.	6,683	267
Northern Oil and Gas Inc.	7,107	266
* NOW Inc.	25,093	250
Patterson-UTI Energy Inc.	20,799	244
Select Water Solutions Inc.	32,004	239
Baker Hughes Co.	6,791	229
* REX American Resources Corp.	4,493	220
SM Energy Co.	5,320	199
Oil States International Inc.	27,955	193
 Helix Energy Solutions Group	20,140	188
Inc. DMC Global Inc.	11,369	181
SandRidge Energy Inc.	12,278	170
TechnipFMC plc	7,839	162
Evolution Petroleum Corp.	25,289	150

	Shares	Market Value• (\$000)
Magnolia Oil & Gas Corp.		
Class A	5,500	118
Noble Corp. plc	2,454	113
* Kosmos Energy Ltd.	14,637	99
* Expro Group Holdings NV	6,377	99
 Berry Corp. * Oceaneering International Inc. 	11,528 3,974	83 82
* MRC Global Inc.	6,800	70
* Tidewater Inc.	1,000	60
	-	26,987
Financials (14.6%)	00 710	1 070
Aflac Inc. American International Group	22,718	1,879
Inc.	22,990	1,513
OneMain Holdings Inc.	27,015	1,143
MGIC Investment Corp.	63,487	1,117
OFG Bancorp	30,492	1,023
Popular Inc.	11,597	856
Primerica Inc.	4,064	851
JPMorgan Chase & Co.	5,405	844 795
Old Republic International Corp. Radian Group Inc.	27,127 28,830	795
CNO Financial Group Inc.	25,177	667
Enact Holdings Inc.	23,485	651
First BanCorp (XNYS)	42,432	637
* NMI Holdings Inc. Class A	22,407	616
Unum Group	14,103	606
Bank of New York Mellon Corp.	11,445	553
* Genworth Financial Inc. Class A	90,852	535
International Bancshares Corp. Fidelity National Financial Inc.	11,811 11,143	530 500
Employers Holdings Inc.	11,942	458
Pathward Financial Inc.	9,172	455
Apollo Global Management Inc.	4,889	450
 * Enstar Group Ltd. 	1,614	443
 Mr Cooper Group Inc. 	7,176	434
PennyMac Financial Services Inc.	5,328	415
Jefferies Financial Group Inc.	11,544	409
Hartford Financial Services	,	100
Group Inc.	5,053	395
First Financial Corp.	9,951	381
Bank OZK	8,511	356
Preferred Bank City Holding Co.	5,378 3,327	331 320
Principal Financial Group Inc.	4,256	314
Victory Capital Holdings Inc.	1,200	011
Class A	9,397	302
Navient Corp.	17,317	297
State Street Corp.	3,986	290
Bank of NT Butterfield & Son Ltd.	10,317	286
SLM Corp.	18,794	283
White Mountains Insurance	,	
Group Ltd.	185	283
WaFd Inc.	9,733	260
Equitable Holdings Inc.	8,480	260
QCR Holdings Inc. Discover Financial Services	5,110	254
Globe Life Inc.	2,517 1,887	234 232
* Axos Financial Inc.	5,875	232
Federal Agricultural Mortgage	3,370	-20
Corp. Class C	1,354	225
S&T Bancorp Inc.	7,987	224
Evercore Inc. Class A	1,476	218
Corebridge Financial Inc. BOK Financial Corp.	9,850	207
	2,510	180

		Shares	Market Value• (\$000)
*	LPL Financial Holdings Inc. CNA Financial Corp. Cathay General Bancorp RenaissanceRe Holdings Ltd. Assured Guaranty Ltd. W R Berkley Corp. Central Pacific Financial Corp. Ameriprise Financial Inc. Cboe Global Markets Inc. Amalgamated Financial Corp. HarborOne Bancorp Inc. Southside Bancshares Inc. Texas Capital Bancshares Inc. 1st Source Corp. BankUnited Inc. Affiliated Managers Group Inc. TrustCo Bank Corp. NY New York Community Bancorp	805 4,018 4,315 704 2,200 2,037 8,433 406 769 6,306 6,306 6,306 11,687 1,958 2,198 3,598 712 3,526	179 169 158 151 149 148 144 144 140 132 129 124 107 106 99 97 95
*	Inc. WSFS Financial Corp. Old Second Bancorp Inc. Fulton Financial Corp. Hanmi Financial Corp. Berkshire Hills Bancorp Inc. Great Southern Bancorp Inc. Encore Capital Group Inc. Midland States Bancorp Inc. Arch Capital Group Ltd.	10,000 2,368 5,516 4,880 3,821 2,915 1,111 1,117 1,896 476	94 91 78 69 64 61 56 50 43 40
н	ealth Care (7.5%)		28,399
*	HCA Healthcare Inc. Gilead Sciences Inc. Regeneron Pharmaceuticals	7,296 18,541	1,827 1,420
* * * * * * * * * * * * * *	Inc. Humana Inc. Vertex Pharmaceuticals Inc. Elevance Health Inc. AbbVie Inc. Cigna Group Merck & Co. Inc. Cardinal Health Inc. Bristol-Myers Squibb Co. Catalyst Pharmaceuticals Inc. OraSure Technologies Inc. Amneal Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Collegium Pharmaceuticals Inc. Contene Corp. Lantheus Holdings Inc. Haemonetics Corp. Medpace Holdings Inc. Owens & Minor Inc. PetIQ Inc. Inmode Ltd. CorVel Corp. Chemed Corp. Align Technology Inc. Intuitive Surgical Inc. Jazz Pharmaceuticals plc HealthStream Inc.	1,442 2,402 2,978 1,703 5,533 2,906 7,258 6,486 7,649 25,290 49,062 70,369 11,535 4,000 3,544 3,075 892 11,854 12,039 6,873 773 195 6,873 773 195 4,077 242 6,277 242 6,277 242 6,277	1,188 1,165 1,057 817 788 764 744 694 378 365 359 303 295 254 249 241 236 210 163 161 110 87 75 73 68 64
*	Amphastar Pharmaceuticals Inc.	1,124	63
*	Hims & Hers Health Inc. Henry Schein Inc.	6,308 653 _	56
			14,614

	Shares	Market Value• (\$000)
Industrials (17.4%) * Builders FirstSource Inc. * Fiserv Inc. Caterpillar Inc.	8,613 8,422 3,643	1,155 1,100 913
Allison Transmission Holdings Inc.	13,929	745
 MSC Industrial Direct Co. Inc. Class A MSC Industrial Direct Co. Inc. Class A Owens Corning XPO Inc. Modine Manufacturing Co. American Express Co. Atkore Inc. FedEx Corp. Griffon Corp. GMS Inc. JELD-WEN Holding Inc. General Electric Co. Terekay Corp. Carrier Global Corp. International Seaways Inc. American Woodmark Corp. Teekay Tankers Ltd. Class A Synchrony Financial Ryder System Inc. United Rentals Inc. Snap-on Inc. Acuity Brands Inc. TopBuild Corp. Encore Wire Corp. EMCOR Group Inc. Manitowoc Co. Inc. Scorpio Tankers Inc. Sterling Infrastructure Inc. Accenture plc Class A Vontier Corp. EnerSys Applied Industrial Technologies 	7,576 4,630 6,978 12,132 3,463 4,447 2,225 12,281 7,929 32,178 4,139 10,169 9,744 71,520 9,000 10,237 6,367 9,266 1,3983 4,178 9,154 1,536 2,350 1,400 2,233 1,931 28,205 7,998 6,117 1,154 11,300 4,191	738 628 602 597 591 578 576 571 536 571 536 571 536 571 536 571 533 501 494 468 467 461 460 453 448 467 461 460 453 448 436 422 421 414 412 410 404 390 389 384 381 371
Inc. * Saia Inc. * TriNet Group Inc. Moog Inc. Class A PACCAR Inc. Comfort Systems USA Inc. * Gibraltar Industries Inc. Kelly Services Inc. Class A Ardmore Shipping Corp. Covenant Logistics Group Inc.	2,295 932 3,125 2,535 3,800 1,763 4,962 15,655 23,478 7,396	367 364 362 355 349 341 333 325 319 315
Simpson Manufacturing Co. Inc. Wabash National Corp. Patrick Industries Inc. Nordic American Tankers Ltd. Belden Inc. Schneider National Inc. Class B AGCO Corp. WEX Inc. Hub Group Inc. Class A Hubbell Inc. Resources Connection Inc. DHT Holdings Inc. Insteel Industries Inc. ArcBest Corp. Landstar System Inc. Marten Transport Ltd.	1,868 14,111 3,758 77,937 4,453 12,606 2,541 1,564 3,621 914 19,833 27,109 7,906 2,177 1,501 13,557	312 309 308 302 296 290 289 276 274 274 270 270 269 269 260 259 256

		Shares	Market Value• (\$000)
*	Fair Isaac Corp.	234	255
	Quanex Building Products Corp.	7,741	238
	SFL Corp. Ltd.	20,978	238
	Matson Inc.	2,336	224
	Parker-Hannifin Corp.	500	217
	Dorian LPG Ltd.	4,857	206
*	Eagle Materials Inc.	1,114	202
	Beacon Roofing Supply Inc.	2,469	198
*	Deluxe Corp.	10,796	197
	AAR Corp.	2,656	184
*	MYR Group Inc.	1,384	172
	Greif Inc. Class A	2,442	171
	Apogee Enterprises Inc.	3,695	167
	Barrett Business Services Inc.	1,393	153
	Preformed Line Products Co.	1,220	152
	Powell Industries Inc.	1,752	146
	Thermon Group Holdings Inc. WESCO International Inc. Carlisle Cos. Inc.	4,830 911 494	146 142 139
*	API Group Corp.	4,495	136
	Genco Shipping & Trading Ltd.	8,607	134
	LSI Industries Inc.	10,070	132
	Brunswick Corp.	1,663	131
	Cross Country Healthcare Inc.	6,480	131
	Kforce Inc. Expeditors International of Washington Inc. Tennant Co. Werner Enterprises Inc.	1,872 1,052 1,300 2,610	131 127 111 104
*	REV Group Inc.	6,470	102
	Proto Labs Inc.	2,800	101
	H&E Equipment Services Inc.	2,206	98
	Standex International Corp.	733	98
	Franklin Electric Co. Inc.	1,049	93
	JB Hunt Transport Services Inc.	484	90
*	Berry Global Group Inc. O-I Glass Inc. Tutor Perini Corp. Kennametal Inc. Pentair plc Insperity Inc. Ennis Inc. ManpowerGroup Inc. Robert Half Inc.	1,263 5,564 9,676 3,288 1,100 591 3,061 866 764	84 82 81 77 67 65 64 63
	Graphic Packaging Holding Co. Enerpac Tool Group Corp. Watts Water Technologies Inc.	2,601 2,127	59 58
*	Class A	269	52
	Masonite International Corp.	532	47
	nVent Electric plc	811	43
	FleetCor Technologies Inc.	161	39
*	AMN Healthcare Services Inc.	580	39
	Titan Machinery Inc.	1,669	38
Re	eal Estate (0.5%)	_	33,676
*	Forestar Group Inc.	9,378	286
	St. Joe Co.	5,565	286
	Newmark Group Inc. Class A	28,018	231
	CBRE Group Inc. Class A	853	67
T-		-	870
*	chnology (14.4%) Microchip Technology Inc. Alphabet Inc. Class C Meta Platforms Inc. Class A Applied Materials Inc. Broadcom Inc.	24,759 13,284 5,024 10,795 1,610	2,066 1,779 1,644 1,617 1,490

		Shares	Market Value• (\$000)
J	Oracle Corp.	12,153	1,412
*	Palo Alto Networks Inc.	4,696	1,386
*	Lam Research Corp. Alphabet Inc. Class A	1,843 8,925	1,319 1,183
*	Adobe Inc.	1,770	1,183
*	Cadence Design Systems Inc.	3,844	1,050
	KLA Corp.	1,840	1,002
	Jabil Inc.	7,113	820
*	Photronics Inc.	33,576	710
*	ON Semiconductor Corp.	9,391	670
	Amkor Technology Inc.	19,607	552
*	Salesforce Inc.	2,100	529
* *	Cohu Inc.	15,297	485
	Synopsys Inc.	879	478
	HP Inc. Amdocs Ltd.	15,792	463 439
*	Diodes Inc.	5,239 6,400	439
*	Arrow Electronics Inc.	3,275	388
	NVIDIA Corp.	829	388
*	Kyndryl Holdings Inc.	20,747	374
*	Insight Enterprises Inc.	2,259	342
	Cognizant Technology Solutions	,	
	Čorp. Class A	4,635	326
*	LiveRamp Holdings Inc.	9,663	320
*	Axcelis Technologies Inc.	2,343	291
	Skyworks Solutions Inc.	2,653	257
*	Adeia Inc.	27,708	255
	Sanmina Corp. Kulicke & Soffa Industries Inc.	4,964 4,386	249 226
	Vishay Intertechnology Inc.	4,380 9,242	220
	Science Applications	3,242	205
	International Corp.	1,490	175
*	Workday Inc. Class A	639	173
*	Dropbox Inc. Class A	6,090	172
*	Mitek Systems Inc.	10,959	124
*	CACI International Inc. Class A	381	122
	A10 Networks Inc.	9,374	117
*	Super Micro Computer Inc.	403	110
*	Hewlett Packard Enterprise Co.	6,277	106
-	Daktronics Inc.	10,111	105

	Shares	Market Value• (\$000)		
CTS Corp. * Yext Inc. * Pure Storage Inc. Class A * Teradata Corp. PC Connection Inc. * Asure Software Inc. * F5 Inc. * NetScout Systems Inc. * Rambus Inc.	2,183 12,793 2,389 1,529 1,069 6,601 308 2,399 686	85 85 80 72 64 53 53 48 48		
	-	28,012		
Telecommunications (2.0%) Cisco Systems Inc. Comcast Corp. Class A Bel Fuse Inc. Class B * Charter Communications Inc.	40,115 19,690 6,744	1,941 825 365		
Class A * Extreme Networks Inc. Spok Holdings Inc. * IDT Corp. Class B	868 11,678 7,329 2,555	347 188 123 75		
	-	3,864		
Total Common Stocks (Cost \$17	70,094)	193,198		
Temporary Cash Investments (0	.3%)			
Money Market Fund (0.3%) ¹ Vanguard Market Liquidity Fund, 5.438% (Cost \$535)	5,351	535		
Total Investments (99.8%) (Cost \$170,629)		193,733		
Other Assets and Liabilities-Ne	et (0.2%)	363		
Net Assets (100%)		194,096		
Cost is in \$000. • See Note A in Notes to Financial Statements. * Non-income-producing security. A difficient accurrent for a writeble cells to Versued for a				

Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.

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				
Micro E-mini S&P 500 Index	December 2023	34	778	15

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Assets and Liabilities

As of November 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value	
Unaffiliated Issuers (Cost \$170,094)	193,198
Affiliated Issuers (Cost \$535)	535
Total Investments in Securities	193,733
Investment in Vanguard	6
Cash Collateral Pledged—Futures Contracts	38
Receivables for Accrued Income	332
Variation Margin Receivable—Futures Contracts	3
Total Assets	194,112
Liabilities	
Payables for Investment Securities Purchased	3
Payables to Vanguard	13
Total Liabilities	16
Net Assets	194,096

At November 30, 2023, net assets consisted of:

Paid-in Capital	195,647
Total Distributable Earnings (Loss)	(1,551)
Net Assets	194,096
Net Assets	
Net Assets	

Applicable to 1,825,000 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	194,096
Net Asset Value Per Share	\$106.35

Statement of Operations

	Year Ended November 30, 2023
	(\$000)
Investment Income	
Income	
Dividends ¹	3,834
Interest ²	34
Securities Lending—Net	13
Total Income	3,881
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	49
Management and Administrative	180
Marketing and Distribution	10
Auditing Fees	28
Shareholders' Reports	27
Trustees' Fees and Expenses	_
Professional Services	16
Total Expenses	310
Net Investment Income	3,571
Realized Net Gain (Loss)	
Investment Securities Sold ^{2,3}	5,381
Futures Contracts	84
Realized Net Gain (Loss)	5,465
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ²	(2,490)
Futures Contracts	(39)
Change in Unrealized Appreciation (Depreciation)	(2,529)
Net Increase (Decrease) in Net Assets Resulting from Operations	6,507

1 Dividends are net of foreign withholding taxes of \$4,000.

2 Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$32,000, less than \$1,000, less than \$1,000, and less than \$1,000, respectively. Purchases and sales are for temporary cash investment purposes.

3 Includes \$11,645,000 of net gain (loss) resulting from in-kind redemptions.

Statement of Changes in Net Assets

	Year Ended November 3	
	2023 (\$000)	2022 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	3,571	3,098
Realized Net Gain (Loss)	5,465	3,068
Change in Unrealized Appreciation (Depreciation)	(2,529)	1,362
Net Increase (Decrease) in Net Assets Resulting from Operations	6,507	7,528
Distributions		
Total Distributions	(3,596)	(2,850)
Capital Share Transactions		
Issued	52,488	83,650
Issued in Lieu of Cash Distributions	—	—
Redeemed	(31,560)	(28,351)
Net Increase (Decrease) from Capital Share Transactions	20,928	55,299
Total Increase (Decrease)	23,839	59,977
Net Assets		
Beginning of Period	170,257	110,280
End of Period	194,096	170,257

Financial Highlights

For a Share OutstandingYear Ended November 30,					ember 30,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$105.10	\$103.55	\$79.93	\$79.60	\$76.07
Investment Operations					
Net Investment Income ¹	2.111	2.188	1.534	1.191	1.340
Net Realized and Unrealized Gain (Loss) on Investments	1.295	1.467	23.442	.372	3.458
Total from Investment Operations	3.406	3.655	24.976	1.563	4.798
Distributions					
Dividends from Net Investment Income	(2.156)	(2.105)	(1.356)	(1.233)	(1.268)
Distributions from Realized Capital Gains	_	—	—	—	—
Total Distributions	(2.156)	(2.105)	(1.356)	(1.233)	(1.268)
Net Asset Value, End of Period	\$106.35	\$105.10	\$103.55	\$79.93	\$79.60
Total Return	3.42%	3.73%	31.43%	2.35%	6.46%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$194	\$170	\$110	\$62	\$90
Ratio of Total Expenses to Average Net Assets	0.18%	0.18%²	0.18%	0.19%²	0.19%²
Ratio of Net Investment Income to Average Net Assets	2.07%	2.21%	1.56%	1.66%	1.79%
Portfolio Turnover Rate	37% ³	33% ³	75% ³	95% ³	98%

1 Calculated based on average shares outstanding.

2 The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.18%.

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

See accompanying Notes, which are an integral part of the Financial Statements.

Notes to Financial Statements

Vanguard U.S. Multifactor ETF is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. ETF Shares are listed for trading on Cboe BZX Exchange, Inc.; they can be purchased and sold through a broker.

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

1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been 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 objective of maintaining full exposure to the stock market while maintaining liquidity. The fund may purchase or sell futures contracts to achieve a desired level of investment, whether to accommodate portfolio turnover or cash flows from capital share transactions. 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 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 November 30, 2023, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. Federal Income Taxes: The fund intends to continue to qualify as a regulated investment company and distribute virtually all of its 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.

4. 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.

5. 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.

6. Credit Facilities and Interfund Lending Program: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the year ended November 30, 2023, the fund did not utilize the credit facilities or the Interfund Lending Program.

7. 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.

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 November 30, 2023, the fund had contributed to Vanguard capital in the amount of \$6,000, representing less than 0.01% of the fund's net assets and less than 0.01% of Vanguard's capital received pursuant to the FSA. The fund's trustees and officers are also directors and employees, respectively, of Vanguard.

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

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

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

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

At November 30, 2023, 100% of the market value of the fund's investments and derivatives was determined based on Level 1 inputs.

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

	Amount (\$000)
Paid-in Capital	11,646
Total Distributable Earnings (Loss)	(11,646)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to capital loss carryforwards; and the recognition of unrealized gains or losses from certain derivative contracts. 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	672
Undistributed Long-Term Gains	_
Net Unrealized Gains (Losses)	23,104
Capital Loss Carryforwards	(25,327)
Qualified Late-Year Losses	_
Other Temporary Differences	_
Total	(1,551)

The tax character of distributions paid was as follows:

	Year Ended November 30,	
	2023 Amount (\$000)	2022 Amount (\$000)
Ordinary Income*	3,596	2,850
Long-Term Capital Gains	_	_
Total	3,596	2,850

* Includes short-term capital gains, if any.

As of November 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	170,629
Gross Unrealized Appreciation	28,794
Gross Unrealized Depreciation	(5,690)
Net Unrealized Appreciation (Depreciation)	23,104

E. During the year ended November 30, 2023, the fund purchased \$117,035,000 of investment securities and sold \$96,291,000 of investment securities, other than temporary cash investments. Purchases and sales include \$0 and \$31,538,000, 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 November 30, 2023, such purchases were \$686,000 and sales were \$1,171,000, resulting in net realized loss of \$291,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

F. Capital shares issued and redeemed were:

	Year Ended November 30,	
	2023 Shares (000)	2022 Shares (000)
Issued	515	840
Issued in Lieu of Cash Distributions	_	_
Redeemed	(310)	(285)
Net Increase (Decrease) in Shares Outstanding	205	555

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

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

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

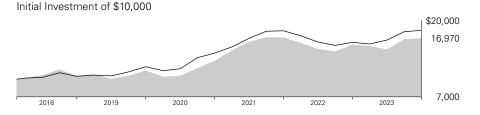
At November 30, 2023, one shareholder was a record or beneficial owner of 38% of the fund's net assets. If this shareholder were to redeem its investment in the fund, the redemption might result in an increase in the fund's expense ratio, cause the fund to incur higher transaction costs, or lead to the realization of taxable capital gains.

H. Management has determined that no events or transactions occurred subsequent to November 30, 2023, that would require recognition or disclosure in these financial statements.

U.S. Quality Factor ETF

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: February 13, 2018, Through November 30, 2023

	Average Annual Total Returns Periods Ended November 30, 2023			
	One Year	Five Years	Since Inception (2/13/2018)	Final Value of a \$10,000 Investment
U.S. Quality Factor ETF Net Asset Value	6.84%	9.97%	9.56%	\$16,970
U.S. Quality Factor ETF Market Price	6.90	9.98	9.57	16,978
	12.61	11.77	11.02	18,324

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

Cumulative Returns of ETF Shares: February 13, 2018, Through November 30, 2023

	One Year	Five Years	Since Inception (2/13/2018)
U.S. Quality Factor ETF Market Price	6.90%	60.87%	69.78%
U.S. Quality Factor ETF Net Asset Value	6.84	60.83	69.70
Russell 3000 Index	12.61	74.44	83.24

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

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 November 30, 2023

Basic Materials	3.6%
Consumer Discretionary	19.7
Consumer Staples	5.5
Energy	4.9
Financials	14.2
Health Care	10.4
Industrials	19.6
Technology	20.9
Telecommunications	1.2

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

Financial Statements

Schedule of Investments As of November 30, 2023

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third guarters 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)
Common Stocks (99.4%)			John Wiley & Sons Inc. Class A 15,240	460
Basic Materials (3.5%)			* Abercrombie & Fitch Co. Class A 5,836	443
Fastenal Co.	20,120	1,207	Rollins Inc. 10,884	443
UFP Industries Inc.	10,566	1,158	* ODP Corp. 9,615	438
Ecolab Inc.	5,266 5,430	1,010 923	Academy Sports & Outdoors	
Nucor Corp. Mueller Industries Inc.	21,114	923 877	Inc. 8,571	436
Olin Corp.	12,079	569	Electronic Arts Inc. 3,136	433
Reliance Steel & Aluminum	12,070	000	* MasterCraft Boat Holdings Inc. 19,866	397
Co.	1,550	427	HNI Corp. 9,627	376
Steel Dynamics Inc.	3,540	422	Perdoceo Education Corp. 20,323 Advance Auto Parts Inc. 6.827	354 347
Boise Cascade Co.	3,743	409	Aaron's Co. Inc. 38,919	347
CF Industries Holdings Inc.	5,406	406	* Duolingo Inc. 1,572	334
Olympic Steel Inc.	5,647	319	New York Times Co. Class A 6,758	318
Sylvamo Corp.	5,475	275	Build-A-Bear Workshop Inc. 12,988	317
Innospec Inc.	2,484	261	La-Z-Boy Inc. 8,751	308
Ryerson Holding Corp. Hawkins Inc.	4,184 1,810	130 111	Monarch Casino & Resort Inc. 4,814	303
* Clearwater Paper Corp.	3,059	107	Movado Group Inc. 11,416	299
elearwater ruper corp.	0,000 -		* Cavco Industries Inc. 1,023	289
0 0: // ///		8,611	Ross Stores Inc. 2,172	283
Consumer Discretionary (19.6%)		4 450	* NVR Inc. 45	277
Walmart Inc. Target Corp.	28,632 26,854	4,458 3,593	* Thryv Holdings Inc. 15,593 Ethan Allen Interiors Inc. 9,850	277 264
TJX Cos. Inc.	20,854 38,175	3,364	* Booking Holdings Inc. 83	264 259
NIKE Inc. Class B	23,575	2,600	* Skechers USA Inc. Class A 4.383	258
Costco Wholesale Corp.	3,218	1,907	PriceSmart Inc. 3.780	255
* Lululemon Athletica Inc.	4,182	1,869	* Arlo Technologies Inc. 26,385	240
 * Airbnb Inc. Class A 	11,744	1,484	* Knowles Corp. 14,943	237
Best Buy Co. Inc.	19,480	1,382	Steelcase Inc. Class A 17,126	211
Pool Corp.	3,703	1,286	* CarParts.com Inc. 68,640	210
* Deckers Outdoor Corp.	1,786	1,186	Buckle Inc. 5,296	204
* Mattel Inc.	58,270	1,107	Murphy USA Inc. 466	172
eBay Inc. * Expedia Group Inc.	26,508 7,904	1,087 1,076	Scholastic Corp. 4,380 * Stitch Fix Inc. Class A 41,104	166 154
Tapestry Inc.	27,184	861	* DraftKings Inc. Class A 3,678	104
* Amazon.com Inc.	5,880	859	Acushnet Holdings Corp. 2,436	138
Macy's Inc.	53,383	847	Upbound Group Inc. 4,324	126
* Grand Canyon Education Inc.	6,008	821	Dick's Sporting Goods Inc. 956	120
Genuine Parts Co.	6,067	806	* Coursera Inc. 6,291	124
 * Ulta Beauty Inc. 	1,664	709	* Destination XL Group Inc. 30,174	114
Hasbro Inc.	13,965	648	* Under Armour Inc. Class A 13,252	108
Steven Madden Ltd.	16,970	643	* Malibu Boats Inc. Class A 2,250	100
Ralph Lauren Corp.	4,781	619	* YETI Holdings Inc. 2,296	98
American Eagle Outfitters Inc.	32,442	617	Caleres Inc. 3,138	95
* elf Beauty Inc.	5,207	615 525	* TripAdvisor Inc. 5,226	93
 Coupang Inc. Lennar Corp. Class B 	34,333 4,413	525 506	Matthews International Corp. Class A 2,695	92
Oxford Industries Inc.	5,424	490	* Solo Brands Inc. Class A 17,294	92 90
extera maastrice me.	0,724			50

	Shares	Market Value• (\$000)
 Hovnanian Enterprises Inc. Class A Columbia Sportswear Co. Liquidity Services Inc. Signet Jewelers Ltd. 	794 837 3,191 712	72 66 61 59
Consumer Staples (5.5%) PepsiCo Inc. Kroger Co. Procter & Gamble Co. WD-40 Co. National Beverage Corp. Casey's General Stores Inc. Kellanova Flowers Foods Inc. John B Sanfilippo & Son Inc. Cencora Inc. Coca-Cola Consolidated Inc. Medifast Inc. Coca-Cola Co. Boston Beer Co. Inc. Class A Hershey Co. Cal-Maine Foods Inc. Lancaster Colony Corp.	17,379 30,164 5,271 3,099 13,136 2,001 10,302 24,662 5,419 2,438 591 6,072 6,828 1,082 2,031 7,792 2,219	47,771 2,925 1,335 809 750 624 551 541 541 513 499 496 434 403 399 384 382 373 368
Nu Skin Enterprises Inc. Class A United Natural Foods Inc. USANA Health Sciences Inc. SpartanNash Co. Weis Markets Inc. Ingles Markets Inc. Class A Kimberly-Clark Corp. Vita Coco Co. Inc.	16,439 16,686 5,089 9,475 3,339 1,519 973 3,517	280 243 240 210 202 124 120 99
 Energy (4.9%) ConocoPhillips Occidental Petroleum Corp. EOG Resources Inc. Marathon Petroleum Corp. ChampionX Corp. Texas Pacific Land Corp. Coterra Energy Inc. Alpha Metallurgical Resources Inc. Enphase Energy Inc. ProPetro Holding Corp. SM Energy Co. RPC Inc. Weatherford International plc Gulfport Energy Corp. Range Resources Corp. Valero Energy Corp. Arch Resources Inc. 	15,288 29,269 13,077 7634 29,983 464 20,117 1,429 3,466 38,262 8,574 35,958 2,856 1,894 6,771 1,521 1,127	13,304 1,767 1,731 1,609 1,139 879 776 528 401 350 349 321 261 259 259 220 193 187
CONSOL Energy Inc. SunCoke Energy Inc. Oceaneering International Inc. PBF Energy Inc. Class A DMC Global Inc. NOW Inc.	1,481 14,628 4,661 2,041 4,496 5,675	158 136 96 91 72 57
Financials (14.1%) American International Group Inc. Equitable Holdings Inc. Ameriprise Financial Inc. Aflac Inc.	40,214 57,584 4,319 17,700	2,647 1,767 1,527 1,464

	Shares	Market Value• (\$000)
Charles Schwab Corp. Discover Financial Services First BanCorp (XNYS) Primerica Inc. SLM Corp. Popular Inc. Principal Financial Group Inc. Zions Bancorp NA State Street Corp. OFG Bancorp Bank OZK WSFS Financial Corp.	23,129 14,720 90,668 6,283 83,508 15,884 14,307 28,170 13,160 25,719 19,510 20,759	1,418 1,369 1,360 1,316 1,255 1,172 1,056 1,004 958 863 863 817 801
 Bancorp Inc. Pathward Financial Inc. CNO Financial Group Inc. Jackson Financial Inc. Class A BankUnited Inc. Cathay General Bancorp Fidelity National Financial Inc. PJT Partners Inc. Class A 	17,777 13,880 25,201 13,664 22,782 15,527 12,394 5,951	693 688 668 652 629 570 556 536
 Customers Bancorp Inc. Aon plc Class A (XNYS) 	11,827 1,557	533 511
Berkshire Hills Bancorp Inc. * Brighthouse Financial Inc. Triumph Financial Inc. City Holding Co.	24,318 9,361 6,780 4,714	509 487 460 454
Central Pacific Financial Corp. * Axos Financial Inc. Fulton Financial Corp.	24,782 11,047 28,971	435 423 412
 BOK Financial Corp. Palomar Holdings Inc. Eagle Bancorp Inc. Westamerica BanCorp 1st Source Corp. Virtus Investment Partners Inc. SEI Investment Co. Moody's Corp. Mr Cooper Group Inc. MGIC Investment Corp. Radian Group Inc. NMI Holdings Inc. Class A Southside Bancshares Inc. 	28,971 5,496 6,571 15,004 6,419 6,613 1,334 4,387 568 3,413 11,196 7,596 6,642 5,679	412 394 384 356 320 261 257 207 207 197 195 183 156
Bank of NT Butterfield & Son Ltd. Trustmark Corp.	4,903 5,848	136 134
Universal Insurance Holdings Inc. Hanmi Financial Corp.	6,169 5,896	105 98
PennyMac Financial Services Inc. Kearny Financial Corp. Lakeland Financial Corp. Amalgamated Financial Corp. Tompkins Financial Corp.	1,233 12,017 1,494 3,425 1,154	96 95 83 72 61
Artisan Partners Asset Management Inc. Class A Preferred Bank Washington Trust Bancorp Inc.	1,501 913 1,928 _	57 56 52
Health Care (10.3%)		34,498
Bristol-Myers Squibb Co. Gilead Sciences Inc. Merck & Co. Inc. Eli Lilly & Co. Humana Inc.	76,814 44,644 21,091 3,561 3,356	3,793 3,420 2,161 2,105 1,627
 IDEXX Laboratories Inc. Chemed Corp. 	3,328 1,977	1,550 1,121

		Shares	Market Value• (\$000)
*	Medpace Holdings Inc.	3,434	930
*	Edwards Lifesciences Corp.	13,395	907
*	Alkermes plc	35,297	852
*	Intuitive Surgical Inc.	2,715	844
*	Johnson & Johnson	4,618	714
*	Lantheus Holdings Inc.	9,304	666
*	Molina Healthcare Inc. CorVel Corp.	1,632	597 508
*	Haemonetics Corp.	2,431 5,167	418
	Bruker Corp.	4,346	283
*	Henry Schein Inc.	4,099	200
*	Supernus Pharmaceuticals Inc.	8,057	220
*	ANI Pharmaceuticals Inc.	4,404	219
*	Hologic Inc.	3,052	218
*	Incyte Corp.	4,007	218
	Patterson Cos. Inc.	8,446	215
*	Corcept Therapeutics Inc.	7,299	186
*	Myriad Genetics Inc.	8,815	168
*	OraSure Technologies Inc.	22,316	163
*	Align Technology Inc.	732	156
* *	Shockwave Medical Inc. ACADIA Pharmaceuticals Inc.	689 5,185	120 115
*	Zimvie Inc.	9,528	90
*	AtriCure Inc.	2,506	89
*	Catalyst Pharmaceuticals Inc.	6,195	89
*	Tactile Systems Technology	0,100	00
	Inc.	6,485	86
*	Mural Oncology plc	1,839	7
		-	25,129
In	dustrials (19.5%)	F 00F	0.004
	Cintas Corp.	5,285	2,924
	Paychex Inc. Visa Inc. Class A	18,669 8,434	2,277 2,165
	MSC Industrial Direct Co. Inc.	0,434	2,105
	Class A	17,489	1,704
	Automatic Data Processing	,	.,
	Inc.	6,839	1,572
	American Express Co.	9,016	1,540
	Donaldson Co. Inc.	24,023	1,462
×	Acuity Brands Inc.	7,676	1,376
÷	Builders FirstSource Inc.	10,055	1,348
	PayPal Holdings Inc.	23,316	1,343
	Robert Half Inc.	13,894 6,452	1,139
	Landstar System Inc. Insperity Inc.	9,631	1,114 1,096
	CH Robinson Worldwide Inc.	12,467	1,023
*	AMN Healthcare Services Inc.	14,548	986
	Caterpillar Inc.	3,641	913
	Accenture plc Class A	2,734	911
	Rockwell Automation Inc.	3,133	863
	Simpson Manufacturing Co.		
	Inc.	4,830	806
	RPM International Inc.	7,682	791
	Expeditors International of Washington Inc.	6,356	765
*	Trex Co. Inc.	10,512	739
	Synchrony Financial	22,784	737
	Jack Henry & Associates Inc.	3,719	590
	Watts Water Technologies Inc.	-,	
	Class A	2,915	561
	A O Smith Corp.	7,091	534
	Advanced Drainage Systems		
	Inc.	4,402	533
	Barrett Business Services Inc.	4,819	530
	Mastercard Inc. Class A	1,279	529
*	WW Grainger Inc. BlueLinx Holdings Inc.	672 5,656	528 497
	Bideeink Holdings Inc.	0,000	+37

	Shares	Market Value• (\$000)
Enerpac Tool Group Corp.	16,551	452
Kforce Inc.	6,478	451
Comfort Systems USA Inc.	2,166	419
EMCOR Group Inc.	1,965	418
 Limbach Holdings Inc. GMS Inc. Apogee Enterprises Inc. ManpowerGroup Inc. 	10,928 6,138 9,186 5,576	417 415 414 414
Old Dominion Freight Line Inc.	984	383
* Teekay Corp.	51,069	352
* Franklin Covey Co.	8,969	349
Badger Meter Inc.	2,349	346
 Proto Labs Inc. Toro Co. Kadant Inc. Applied Industrial Technologies 	9,564 3,994 1,236	346 331 322
Inc. Lincoln Electric Holdings Inc. Donnelley Financial Solutions	1,994 1,566	319 310
Inc.	5,144	304
Graco Inc.	3,723	301
Legalzoom.com Inc.	25,436	293
Cross Country Healthcare Inc.	14,186	288
MYR Group Inc.	2,191	273
Ferguson plc	1,568	269
Atkore Inc.	1,932	251
Resources Connection Inc. Valmont Industries Inc. * TrueBlue Inc. * TriNet Group Inc. Napco Security Technologies	18,426 1,139 17,115 2,048	251 250 239 237
Inc.	7,361	225
Ardmore Shipping Corp.	16,081	219
* Sterling Infrastructure Inc.	3,438	218
* XPO Inc.	2,305	199
Owens Corning	1,405	190
Crane Co.	1,761	186
Powell Industries Inc.	2,225	185
Encore Wire Corp.	989	182
* AeroVironment Inc.	1,271	175
Snap-on Inc.	566	155
CRA International Inc.	1,596	151
* Manitowoc Co. Inc.	10,538	151
LSI Industries Inc.	11,291	148
Myers Industries Inc.	8,052	142
* Beacon Roofing Supply Inc.	1,758	141
Insteel Industries Inc.	4,007	136
Standex International Corp.	887	119
* ExlService Holdings Inc. Shyft Group Inc. Allison Transmission Holdings	3,885 9,418	110 104
Inc. Kelly Services Inc. Class A Wabash National Corp. Tennant Co. REV Group Inc. Crane NXT Co. Watsco Inc. Fortune Brands Innovations	1,884 4,845 4,291 1,082 5,820 1,742 224	101 101 93 92 90 86
Inc.	1,209	83
Hudson Technologies Inc.	6,610	82
Keysight Technologies Inc.	526	71
Forward Air Corp.	1,096	70
Nordson Corp.	286	67
* Titan International Inc.	4,108_	54 47,530

	Shares	Market Value• (\$000)
Technology (20.8%) * Adobe Inc. Apple Inc. * Autodesk Inc. QUALCOMM Inc. * Palo Alto Networks Inc. Lam Research Corp. KLA Corp. Microchip Technology Inc. Applied Materials Inc. Cadence Design Systems Inc. Qualys Inc. Meta Platforms Inc. Class A Manhattan Associates Inc. Gartner Inc. Teradata Corp. Synopsys Inc. Smartsheet Inc. Class A Vertiv Holdings Co. Class A Pure Storage Inc. Teradyne Inc. CommVault Systems Inc. A10 Networks Inc. * Alphabet Inc. Class A NetApp Inc. Hackett Group Inc. Concentrix Corp. * F5 Inc. * Pinterest Inc. Class A ON Semiconductor Corp. MaxLinear Inc. * Axcelis Technologies Inc. * Yelp Inc. DacuSign Inc. * Axcelis Technologies Inc. * Yelp Inc. DacuSign Inc. * Yelp Inc. DacuSign Inc.	$\begin{array}{c} 6,928\\ 20,210\\ 17,240\\ 28,232\\ 11,199\\ 4,445\\ 5,744\\ 34,086\\ 15,856\\ 7,561\\ 8,009\\ 3,158\\ 4,160\\ 2,009\\ 17,063\\ 4,160\\ 2,009\\ 11,209\\ 14,891\\ 14,209\\ 14,891\\ 14,299\\ 14,891\\ 14,299\\ 14,891\\ 14,299\\ 14,891\\ 12,693\\ 3,124\\ 2,5598\\ 6,684\\ 2,650\\ 3,811\\ 5,321\\ 21,087\\ 4,773\\ 2,617\\ 12,693\\ 5,905\\ 22,094\\ 3,124\\ 7,023\\ 6,795\\ 4,075\\ 4,075\\ 4,075\\ 1,253\\ \end{array}$	(\$000) 4,233 3,839 3,766 3,643 3,182 3,128 2,844 2,844 2,875 2,066 1,480 1,033 928 874 874 806 706 631 625 614 578 573 570 541 507 505 486 471 449 448 432 421 414 388 307 293 243 2237
 Cargurus Inc. Lattice Semiconductor Corp. Monolithic Power Systems Inc. Amdocs Ltd. 	10,749 3,756 388 2,375	232 220 213 199

		Market Value•		
	Shares	(\$000)		
 Elastic NV Yext Inc. CSG Systems International Inc. CTS Corp. Paycom Software Inc. Kyndryl Holdings Inc. EverQuote Inc. Class A OneSpan Inc. Super Micro Computer Inc. 	2,250 22,759 2,962 3,682 774 7,793 11,547 11,293 359	181 151 146 143 141 141 121 113 98		
Microsoft Corp. * Fortinet Inc. Dolby Laboratories Inc. Class A *.1 Yandex NV Class A	171 1,069 582 1,459	65 56 50 —		
T I (4.00()		50,717		
Telecommunications (1.2%) Cisco Systems Inc. * Extreme Networks Inc. * IDT Corp. Class B * Roku Inc.	40,045 29,380 14,274 1,584	1,937 474 419 165 2,995		
Total Common Stocks (Cost \$224	,032)	242,394		
Temporary Cash Investments (0.4%)				
Money Market Fund (0.4%) ² Vanguard Market Liquidity Fund, 5.438% (Cost \$937)	9,367	937		
Total Investments (99.8%) (Cost \$224,969)		243,331		
Other Assets and Liabilities-Net	(0.2%)	395		
Net Assets (100%)		243,726		
Cost is in \$000. • See Note A in Notes to Financial Statements. * Non-income-producing security. 1 Security value determined using significant unobservable.				

- Security value determined using significant unobservable inputs.
- 2 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts

				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini S&P 500 Index	December 2023	3	687	10
Micro E-mini S&P 500 Index	December 2023	16	366	5
				15

Statement of Assets and Liabilities

As of November 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value	
Unaffiliated Issuers (Cost \$224,032)	242,394
Affiliated Issuers (Cost \$937)	937
Total Investments in Securities	243,331
Investment in Vanguard	8
Cash Collateral Pledged—Futures Contracts	55
Receivables for Accrued Income	345
Variation Margin Receivable—Futures Contracts	4
Total Assets	243,743
Liabilities	
Payables for Investment Securities Purchased	4
Payables to Vanguard	13
Total Liabilities	17
Net Assets	243,726

At November 30, 2023, net assets consisted of:

Paid-in Capital	246,924
Total Distributable Earnings (Loss)	(3,198)
Net Assets	243,726
Net Assets	
Net Assets Applicable to 2,070,000 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	243,726

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Operations

	Year Ended November 30, 2023
	(\$000)
Investment Income	
Income	
Dividends ¹	3,885
Interest ²	48
Securities Lending—Net	5
Total Income	3,938
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	64
Management and Administrative	141
Marketing and Distribution	13
Custodian Fees	4
Auditing Fees	28
Shareholders' Reports	27
Trustees' Fees and Expenses	_
Professional Services	16
Total Expenses	293
Expenses Paid Indirectly	(3)
Net Expenses	290
Net Investment Income	3,648
Realized Net Gain (Loss)	
Investment Securities Sold ^{2,3}	10,754
Futures Contracts	98
Realized Net Gain (Loss)	10,852
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ²	526
Futures Contracts	(30)
Change in Unrealized Appreciation (Depreciation)	496
Net Increase (Decrease) in Net Assets Resulting from Operations	14,996

1 Dividends are net of foreign withholding taxes of \$8,000.

2 Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$45,000, less than \$1,000, less than \$1,000, and less than \$1,000, respectively. Purchases and sales are for temporary cash investment purposes.

3 Includes \$14,656,000 of net gain (loss) resulting from in-kind redemptions.

Statement of Changes in Net Assets

	Year Ended November 30,	
	2023 (\$000)	2022 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	3,648	2,661
Realized Net Gain (Loss)	10,852	(6,545)
Change in Unrealized Appreciation (Depreciation)	496	(9,078)
Net Increase (Decrease) in Net Assets Resulting from Operations	14,996	(12,962)
Distributions		
Total Distributions	(3,512)	(2,385)
Capital Share Transactions		
Issued	74,318	108,666
Issued in Lieu of Cash Distributions	—	_
Redeemed	(48,124)	(30,853)
Net Increase (Decrease) from Capital Share Transactions	26,194	77,813
Total Increase (Decrease)	37,678	62,466
Net Assets		
Beginning of Period	206,048	143,582
End of Period	243,726	206,048

Financial Highlights

For a Share Outstanding			Year	Ended Nov	ember 30,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$111.98	\$122.20	\$94.79	\$84.21	\$78.58
Investment Operations					
Net Investment Income ¹	1.818	1.562	1.403	1.291	1.199
Net Realized and Unrealized Gain (Loss) on Investments	5.667	(10.356)	27.292	10.428	5.559
Total from Investment Operations	7.485	(8.794)	28.695	11.719	6.758
Distributions					
Dividends from Net Investment Income	(1.725)	(1.426)	(1.285)	(1.139)	(1.128)
Distributions from Realized Capital Gains	—	—	—	—	—
Total Distributions	(1.725)	(1.426)	(1.285)	(1.139)	(1.128)
Net Asset Value, End of Period	\$117.74	\$111.98	\$122.20	\$94.79	\$84.21
Total Return	6.84%	-7.15%	30.42%	14.29%	8.75%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$244	\$206	\$144	\$55	\$21
Ratio of Total Expenses to Average Net Assets	0.13%²	0.13%	0.13%	0.13%	0.13%
Ratio of Net Investment Income to Average Net Assets	1.64%	1.43%	1.21%	1.59%	1.52%
Portfolio Turnover Rate	55% ³	49% ³	56% ³	58%	80%

1 Calculated based on average shares outstanding.

2 The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.13%.

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

Notes to Financial Statements

Vanguard U.S. Quality Factor ETF is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. ETF Shares are listed for trading on Cboe BZX Exchange, Inc.; they can be purchased and sold through a broker.

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

1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been 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 objective of maintaining full exposure to the stock market while maintaining liquidity. The fund may purchase or sell futures contracts to achieve a desired level of investment, whether to accommodate portfolio turnover or cash flows from capital share transactions. 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 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 November 30, 2023, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. 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.

4. 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.

5. 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.

6. Credit Facilities and Interfund Lending Program: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the year ended November 30, 2023, the fund did not utilize the credit facilities or the Interfund Lending Program.

7. 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.

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 November 30, 2023, the fund had contributed to Vanguard capital in the amount of \$8,000, representing less than 0.01% of the fund's net assets and less than 0.01% 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 November 30, 2023, custodian fee offset arrangements reduced the fund's expenses by \$3,000 (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 November 30, 2023, based on the inputs used to value them:

	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)	Total (\$000)
Investments				
Assets				
Common Stocks	242,394	_	_	242,394
Temporary Cash Investments	937	_	_	937
Total	243,331	_	_	243,331
Derivative Financial Instruments				
Assets				
Futures Contracts ¹	15	_	—	15

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

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 were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	14,656
Total Distributable Earnings (Loss)	(14,656)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to capital loss carryforwards; the deferral of losses from wash sales; and the recognition of unrealized gains or losses from certain derivative contracts. 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	754
Undistributed Long-Term Gains	—
Net Unrealized Gains (Losses)	18,362
Capital Loss Carryforwards	(22,314)
Qualified Late-Year Losses	_
Other Temporary Differences	_
Total	(3,198)

The tax character of distributions paid was as follows:

Year Ended November 30,	
2023 Amount (\$000)	2022 Amount (\$000)
3,512	2,385
_	_
3,512	2,385
	2023 Amount (\$000) 3,512 —

* Includes short-term capital gains, if any.

As of November 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	224,969
Gross Unrealized Appreciation	27,369
Gross Unrealized Depreciation	(9,007)
Net Unrealized Appreciation (Depreciation)	18,362

F. During the year ended November 30, 2023, the fund purchased \$196,075,000 of investment securities and sold \$169,941,000 of investment securities, other than temporary cash investments. Purchases and sales include \$0 and \$48,145,000, 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 November 30, 2023, such purchases were \$2,819,000 and sales were \$84,000, resulting in net realized gain of \$25,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

G. Capital shares issued and redeemed were:

	Year Ended No	Year Ended November 30,	
	2023 Shares (000)	2022 Shares (000)	
Issued	665	950	
Issued in Lieu of Cash Distributions		_	
Redeemed	(435)	(285)	
Net Increase (Decrease) in Shares Outstanding	230	665	

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

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

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

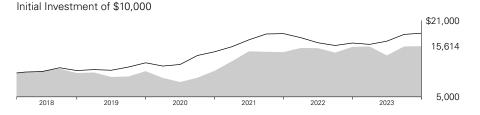
At November 30, 2023, one shareholder was a record or beneficial owner of 56% of the fund's net assets. If this shareholder were to redeem its investment in the fund, the redemption might result in an increase in the fund's expense ratio, cause the fund to incur higher transaction costs, or lead to the realization of taxable capital gains.

I. Management has determined that no events or transactions occurred subsequent to November 30, 2023, that would require recognition or disclosure in these financial statements.

U.S. Value Factor ETF

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: February 13, 2018, Through November 30, 2023

	Average Annual Total Returns Periods Ended November 30, 2023			
	One Year	Five Years	Since Inception (2/13/2018)	Final Value of a \$10,000 Investment
U.S. Value Factor ETF Net Asset Value	0.97%	9.34%	7.99%	\$15,614
U.S. Value Factor ETF Market Price	1.02	9.33	7.99	15,612
Russell 3000 Index	12.61	11.77	11.02	18,324

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

Cumulative Returns of ETF Shares: February 13, 2018, Through November 30, 2023

	One Year	Five Years	Since Inception (2/13/2018)
U.S. Value Factor ETF Market Price	1.02%	56.19%	56.12%
U.S. Value Factor ETF Net Asset Value	0.97	56.26	56.14
Russell 3000 Index	12.61	74.44	83.24

"Since Inception" performance is calculated from the ETF Shares' inception date for both the fund and its comparative standard(s).

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 November 30, 2023

Basic Materials	6.1%
Consumer Discretionary	17.8
Consumer Staples	5.6
Energy	11.9
Financials	27.5
Health Care	7.3
Industrials	13.3
Real Estate	0.3
Technology	6.1
Telecommunications	4.1

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

Financial Statements

Schedule of Investments As of November 30, 2023

The fund files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third guarters 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)
Common Stocks (99.5%)			* Avis Budget Group Inc.	12,701	2,322
Basic Materials (6.1%)				33,644	2,314
Nucor Corp.	16,722	2,842		65,597	2,027
Dow Inc.	51,660	2,673		14,066	1,987
Celanese Corp.	17,308	2,400		20,725	1,832
Freeport-McMoRan Inc.	62,395	2,329	* AutoZone Inc.	663	1,730
LyondellBasell Industries NV				20,986	1,708
Class A	23,928	2,276		36,824	1,661
* Cleveland-Cliffs Inc.	121,392	2,083		18,724	1,649
Tronox Holdings plc	103,833	1,324		12,780	1,635
Mosaic Co.	36,531	1,311		12,574 53,885	1,605 1,569
Koppers Holdings Inc.	25,870	1,168		96,844	1,485
Ryerson Holding Corp.	36,941	1,144	* Liberty Media CorpLiberty	50,044	1,405
 * US Silica Holdings Inc. 	96,984	1,094	SiriusXM Class C	52,617	1,420
Steel Dynamics Inc.	9,147	1,090		35,214	1,331
Olin Corp.	22,535	1,062		39,748	1,297
* Clearwater Paper Corp.	29,529	1,036	Meritage Homes Corp.	9,167	1,295
Huntsman Corp.	40,678	1,001		23,684	1,282
Mueller Industries Inc.	22,870	950		35,649	1,271
Sylvamo Corp. AdvanSix Inc.	18,635 30,092	937 786	* Adient plc	38,889	1,252
CF Industries Holdings Inc.	10,164	764	PVH Corp.	12,752	1,247
UFP Industries Inc.	6,600	724	* Tri Pointe Homes Inc.	42,502	1,240
United States Steel Corp.	19,178	688		46,436	1,222
Mativ Holdings Inc.	58,031	679		16,938	1,222
* TimkenSteel Corp.	31,614	642		90,729	1,199
Schnitzer Steel Industries Inc.	01,011	012		10,368	1,190
Class A	24,895	638		15,852	1,150
Timken Co.	8,578	621		30,874	1,140
Commercial Metals Co.	11,777	534		33,205	1,119
Eastman Chemical Co.	6,192	519		38,600	1,111
SSR Mining Inc. (XTSE)	39,654	468		35,344	1,060
 LSB Industries Inc. 	46,095	395		29,606	1,042
Olympic Steel Inc.	6,840	387	 Asbury Automotive Group Inc. 	4,948	1,038
 Intrepid Potash Inc. 	14,744	303	* AMC Networks Inc. Class A	67.117	1,033
Chemours Co.	9,800	269		22,502	1,023
Boise Cascade Co.	1,678	183	Academy Sports & Outdoors	-2,002	1,022
Reliance Steel & Aluminum	000	407		19,947	1,015
Co. Element Solutions Inc.	608	167	* AutoNation Inc.	7,390	1,000
	7,626	160	News Corp. Class A	45,388	1,000
International Paper Co.	3,818	141 124	Lear Corp.	7,435	994
Newmont Corp. (XNYS)	3,084		Aaron's Co. Inc. 1	12,033	987
		35,912	* Sally Beauty Holdings Inc. 1	01,242	979
Consumer Discretionary (17.6%				21,901	969
General Motors Co.	186,520	5,894		11,956	959
Ford Motor Co.	457,599	4,695		11,095	953
* American Airlines Group Inc.	312,078	3,879	* M/I Homes Inc.	8,931	942
Macy's Inc.	172,690	2,739	* SkyWest Inc.	19,239	910

		Shares	Market Value• (\$000)
*	United Airlines Holdings Inc.	23,013	907
*	American Axle & Manufacturing Holdings Inc. Advance Auto Parts Inc.	127,294 16,976	886 862
	Southwest Airlines Co.	33,124	847
*	Adtalem Global Education Inc.	14,795	843
	Caesars Entertainment Inc. KB Home	18,018 15,163	806 790
*	Stagwell Inc.	156,985	788
J	Nexstar Media Group Inc.	5,413	768
*	ODP Corp.	16,746	763
*	Hibbett Inc. Solo Brands Inc. Class A	12,057 140,363	754 731
*	Brinker International Inc.	20,184	727
*	Liberty Media CorpLiberty		
	SiriusXM Class A Allegiant Travel Co.	26,927 9,685	725 663
	Scholastic Corp.	17,176	653
*	Malibu Boats Inc. Class A	14,386	636
J	MillerKnoll Inc.	23,501	606
~	SeaWorld Entertainment Inc. Caleres Inc.	12,281 19,534	601 593
	Boyd Gaming Corp.	9,871	583
	Dine Brands Global Inc.	13,357	581
	Marriott Vacations Worldwide	7054	500
*	Corp. Green Brick Partners Inc.	7,951 12,019	580 570
*	Hovnanian Enterprises Inc.	12,010	570
	Class A	5,676	513
~	Tilly's Inc. Class A Upbound Group Inc.	58,237 16,116	482 469
*	MasterCraft Boat Holdings	10,110	400
	Inc.	22,236	445
	Haverty Furniture Cos. Inc.	13,712	430
	Matthews International Corp. Class A	12,602	430
*	Playtika Holding Corp.	48,462	421
*	Bally's Corp.	35,604	410
*	Rush Enterprises Inc. Class A Crocs Inc.	10,275 3,625	408 383
*	EW Scripps Co. Class A	53,979	373
*	Sun Country Airlines Holdings		
	Inc. Movado Group Inc.	24,585 13,823	373 361
	Target Corp.	2,485	333
*	Warner Bros Discovery Inc.	31,258	327
	Graham Holdings Co. Class B	490	307
*	Build-A-Bear Workshop Inc. Hilton Grand Vacations Inc.	10,999 7,424	269 254
*	iHeartMedia Inc. Class A	91,235	239
	Group 1 Automotive Inc.	837	236
	LKQ Corp.	5,184	231
	eBay Inc. Sinclair Inc.	5,573 16,641	229 210
	Tapestry Inc.	6,613	209
	Jack in the Box Inc.	2,627	190
*	Sportsman's Warehouse Holdings Inc.	33,626	162
	Oxford Industries Inc.	1,600	145
*	2U Inc.	148,078	145
*	Liberty Media CorpLiberty	2 00 /	100
	Live Class A Shoe Carnival Inc.	3,884 4,735	128 115
*	Gannett Co. Inc.	51,336	95
1	Big 5 Sporting Goods Corp.	15,024	89

	Shares	Market Value• (\$000)
 Fossil Group Inc. 	65,584	72
Consumer Staples (5.6%)		104,358
Consumer Staples (5.6%) Altria Group Inc. McKesson Corp. CVS Health Corp. Archer-Daniels-Midland Co.	117,971 10,442 57,515 47,609	4,959 4,914 3,908 3,510
Molson Coors Beverage Co. Class B Kraft Heinz Co. Tyson Foods Inc. Class A Walgreens Boots Alliance Inc J M Smucker Co. Darling Ingredients Inc. Ingles Markets Inc. Class A United Natural Foods Inc. Philip Morris International Inc Conagra Brands Inc. Andersons Inc. Vector Group Ltd. General Mills Inc. SpartanNash Co. Seaboard Corp. Kroger Co. Ingredion Inc.	8,483 20,584 10,454 57,907	1,282 1,140 969 940 931 903 853 843 796 794 760 743 735 670 657 574 495
ACCO Brands Corp. Fresh Del Monte Produce Ind Pilgrim's Pride Corp. B&G Foods Inc. Edgewell Personal Care Co. Nu Skin Enterprises Inc. Class A	76,619	412 338 286 268 178 146
Enormy (11.99/)		33,004
Energy (11.8%) Phillips 66 Marathon Petroleum Corp. ConocoPhillips Exxon Mobil Corp. Chevron Corp. Valero Energy Corp. EOG Resources Inc. Occidental Petroleum Corp. Williams Cos. Inc. * Southwestern Energy Co. Chord Energy Corp. Liberty Energy Inc. SM Energy Co. Coterra Energy Inc. Diamondback Energy Inc. Helmerich & Payne Inc. * ProPetro Holding Corp. EQT Corp. * Gulfport Energy Corp. Maratdor Resources Corp. Marathon Oil Corp. Arch Resources Inc. PBF Energy Inc. Class A HF Sinclair Corp. Berry Corp. DTE Midstream LLC Devon Energy Corp. California Resources Corp. Ovintiv Inc. (XNYS) Murphy Oil Corp.	35,799 25,860 32,744 36,614 25,246 28,673 23,883 46,657 58,955 262,849 10,524 8,876 10,054 44,128 62,882 8,776 10,066 38,204 144,495 31,996 18,630 43,867 40,705 6,108 22,645 18,972 18,630 43,867 40,705 6,108 22,645 18,972 18,630 43,867 40,705 6,108 22,645 18,972 18,630 43,867 40,705 18,972 18,630 43,867 40,705 18,972 18,630 43,867 40,705 18,972 18,630 43,867 40,705 18,972 18,630 43,857 40,705 18,972 18,630 43,867 40,705 18,972 18,630 43,867 40,705 40,70	4,614 3,858 3,784 3,762 3,625 3,595 2,939 2,760 2,169 1,732 1,706 1,665 1,653 1,651 1,554 1,384 1,316 1,554 1,384 1,316 1,279 1,080 1,078 1,037 1,035 1,014 1,006 992 996 948 899 886 877

	Shares	Market Value• (\$000)
 * Talos Energy Inc. Patterson-UTI Energy Inc. Warrior Met Coal Inc. SunCoke Energy Inc. Delek US Holdings Inc. * Bristow Group Inc. * Nabors Industries Ltd. (XNYS) 	55,836 62,583 12,725 72,563 23,950 23,512	777 733 712 676 650 605
Alpha Metallurgical Resources Inc. Golar LNG Ltd. CONSOL Energy Inc. APA Corp.	6,929 2,077 26,654 4,426 12,616	602 583 574 472 454
 REX American Resources Corp. SandRidge Energy Inc. Kosmos Energy Ltd. Kinder Morgan Inc. RPC Inc. VAALCO Energy Inc. Magnetia Oil & Cos Corp. 	9,116 29,209 52,489 19,815 42,674 56,610	447 403 356 348 309 263
Magnolia Oil & Gas Corp. Class A World Kinect Corp. * Oil States International Inc. 1 Ramaco Resources Inc.	11,047 10,506 29,848	238 221 206
Class A * Par Pacific Holdings Inc. Equitrans Midstream Corp. Ramaco Resources Inc.	12,330 4,173 14,948	206 143 140
Class B	7,979_	119 69,696
Financials (27.4%) Bank of America Corp. Wells Fargo & Co. Citigroup Inc. US Bancorp	235,700 137,355 118,771 136,377	7,186 6,125 5,475 5,199
American International Group Inc. JPMorgan Chase & Co. Truist Financial Corp. Bank of New York Mellon	54,939 22,050 106,855	3,616 3,442 3,434
Corp. Travelers Cos. Inc. Prudential Financial Inc. Essent Group Ltd. MetLife Inc. Webster Financial Corp. Goldman Sachs Group Inc. Unum Group * Brighthouse Financial Inc. Lincoln National Corp. Columbia Banking System	66,782 15,901 29,116 57,805 42,346 55,631 7,011 52,743 38,238 82,233	3,227 2,872 2,847 2,794 2,694 2,495 2,395 2,268 1,990 1,956
Inc. Morgan Stanley Synovus Financial Corp. Western Alliance Bancorp Chubb Ltd. MGIC Investment Corp. Ally Financial Inc. Valley National Bancorp PNC Financial Services Group	86,445 24,123 61,864 34,681 7,549 97,280 58,002 185,962	1,939 1,914 1,905 1,776 1,732 1,711 1,695 1,692
Inc. KeyCorp Old National Bancorp Radian Group Inc. Zions Bancorp NA Comerica Inc. * Enstar Group Ltd.	12,552 134,337 110,170 61,665 43,716 33,976 5,450	1,681 1,664 1,640 1,585 1,558 1,558 1,536 1,497

	Shares	Market Value• (\$000)
 Customers Bancorp Inc. Prosperity Bancshares Inc. Hancock Whitney Corp. S&T Bancorp Inc. FNB Corp. Affiliated Managers Group 	30,906 22,521 32,314 47,242 107,001	1,393 1,358 1,333 1,322 1,283
Inc. Corebridge Financial Inc. Invesco Ltd. Allstate Corp. OceanFirst Financial Corp. Enterprise Financial Services	8,999 56,830 83,591 8,534 83,899	1,220 1,195 1,193 1,177 1,163
Corp. * Arch Capital Group Ltd. Jefferies Financial Group Inc. WaFd Inc. Renasant Corp. First Financial Bancorp BankUnited Inc. M&T Bank Corp. Axis Capital Holdings Ltd. Heartland Financial USA Inc.	29,609 13,801 32,534 42,090 39,356 52,807 38,451 8,113 18,291 33,133	1,161 1,155 1,153 1,125 1,072 1,067 1,061 1,040 1,031 1,025
 Metropolitan Bank Holding Corp Cadence Bank Fulton Financial Corp. WesBanco Inc. RenaissanceRe Holdings Ltd. Hope Bancorp Inc. Bank OZK Old Republic International 	25,615 39,483 67,443 35,204 4,360 92,724 21,695	998 989 960 937 935 909 908
Corp. Ameris Bancorp Towne Bank Associated Banc-Corp. OneMain Holdings Inc. Peoples Bancorp Inc. Atlantic Union Bankshares	29,074 19,996 31,669 46,577 19,523 27,820	852 851 832 826 826 819
Corp. New York Community Bancorp Inc. Regions Financial Corp.	26,588 85,786 47,837	813 807 798
First Busey Corp. Fidelity National Financial Inc. * Genworth Financial Inc.	36,561 17,659	793 792
Class A Provident Financial Services Inc.	133,196 51,251	785 780
First Citizens BancShares Inc. Class A Pinnacle Financial Partners	513	753
Globe Life Inc. Charles Schwab Corp. Dime Community Bancshares	10,095 5,848 11,712	733 720 718
Inc. Axos Financial Inc. Stifel Financial Corp. Mr Cooper Group Inc. Trustmark Corp. Aflac Inc. SouthState Corp. Jackson Financial Inc. Class A Navient Corp. Cathay General Bancorp East West Bancorp Inc. Stewart Information Services	35,013 18,236 11,285 11,123 29,260 8,032 8,908 13,127 36,079 16,808 9,802	704 698 689 673 670 664 660 627 618 617 617
Corp.	12,897	609

	Shares	Market Value• (\$000)
Veritex Holdings Inc. CNA Financial Corp. First Financial Corp. TrustCo Bank Corp. NY First American Financial Corp. First Foundation Inc. Univest Financial Corp. Bank of NT Butterfield & Son	31,239 14,143 15,331 21,286 9,541 96,385 29,956	598 596 586 571 569 567 566
Ltd. United Bankshares Inc. Universal Insurance Holdings	19,965 16,260	554 538
Inc. 1st Source Corp. NBT Bancorp Inc. Raymond James Financial	31,715 10,777 14,613	538 521 519
Nelnet Inc. Nelnet Inc. Class A First Commonwealth	4,921 6,040	517 507
Financial Corp. Franklin Resources Inc. TriCo Bancshares Heritage Financial Corp. Flushing Financial Corp. Hartford Financial Services	37,394 19,521 13,347 25,451 31,654	500 484 459 454 447
Group Inc. BOK Financial Corp. Equitable Holdings Inc. Nicolet Bankshares Inc. Everest Group Ltd.	5,653 6,089 14,172 5,864 1,024	442 437 435 432 420
 NMI Holdings Inc. Class A First Bancorp (XNGS) Janus Henderson Group plc Citizens Financial Group Inc. Principal Financial Group Inc. Huntington Bancshares Inc. 	15,035 12,792 15,233 14,607 5,379 34,921	413 401 399 398 397 393
Popular Inc. * StoneX Group Inc. Sandy Spring Bancorp Inc. Brookline Bancorp Inc. OFG Bancorp Premier Financial Corp. ConnectOne Bancorp Inc. Pacific Premier Bancorp Inc. PennyMac Financial Services	5,316 6,306 16,940 38,374 10,729 17,379 17,246 14,622	392 385 373 366 360 347 339 329
Inc. Eastern Bankshares Inc. First Horizon Corp. Carlyle Group Inc. Berkshire Hills Bancorp Inc. Hanover Insurance Group Inc.	4,071 25,725 23,054 8,482 13,512 2,168	317 308 295 291 283 269
Reinsurance Group of America Inc. * Markel Group Inc. ServisFirst Bancshares Inc. Horizon Bancorp Inc. CNO Financial Group Inc. Banner Corp. Simmons First National Corp.	1,639 181 5,004 22,950 9,049 5,160	267 260 256 250 240 233
Class A Northwest Bancshares Inc. SLM Corp. Discover Financial Services Cullen/Frost Bankers Inc. * LendingClub Corp. Origin Bancorp Inc. Byline Bancorp Inc. First Merchants Corp.	14,056 19,714 13,986 2,230 2,077 31,406 6,062 9,611 6,076	225 220 210 207 204 198 193 192 186

		Shares	Market Value• (\$000)
*	Enova International Inc. Northfield Bancorp Inc. Amalgamated Financial Corp. First Bancshares Inc. QCR Holdings Inc. Eagle Bancorp Inc. State Street Corp. Enact Holdings Inc. Home BancShares Inc. Preferred Bank Hanmi Financial Corp. Employers Holdings Inc. Selective Insurance Group	4,468 18,284 8,178 6,629 3,298 6,827 2,122 5,535 6,563 2,326 8,302 3,556	184 174 172 170 164 165 153 146 143 138 136
*	Inc. Berkshire Hathaway Inc. Class B Dethused Financial Inc.	1,269 346	129 125
	Pathward Financial Inc.	1,844 _	91 161,942
He *	alth Care (7.3%) Centene Corp. Cigna Group HCA Healthcare Inc. Bristol-Myers Squibb Co. Gilead Sciences Inc. Pfizer Inc. Cardinal Health Inc. Elevance Health Inc. Humana Inc. Regeneron Pharmaceuticals Inc.	59,488 14,689 14,815 64,168 40,238 86,638 24,359 5,073 4,542 1,836	4,383 3,862 3,711 3,169 3,082 2,640 2,608 2,433 2,202 1,513
* * *	Elanco Animal Health Inc. (XNYS) Owens & Minor Inc. Jazz Pharmaceuticals plc United Therapeutics Corp. QuidelOrtho Corp. Royalty Pharma plc Class A	126,306 65,862 10,523 5,071 17,071 34,739	1,488 1,309 1,244 1,217 1,173 940
* * *	Universal Health Services Inc. Class B AdaptHealth Corp. Embecta Corp. Organon & Co. DENTSPLY SIRONA Inc. Amneal Pharmaceuticals Inc. Pediatrix Medical Group Inc. Premier Inc. Class A Medtronic plc Quest Diagnostics Inc. Eagle Pharmaceuticals Inc. Integra LifeSciences Holdings	6,641 102,802 41,097 53,334 16,850 97,485 42,683 15,998 3,953 1,990 34,819	913 872 754 604 535 420 358 329 313 273 204
*	Corp.	4,680	183
*	Computer Programs and Systems Inc. Avanos Medical Inc. Zimvie Inc.	16,515 6,373 14,073	174 137 133 43 176
Ind * *	dustrials (13.2%) FedEx Corp. Capital One Financial Corp. Fiserv Inc. Air Lease Corp. Berry Global Group Inc. Mohawk Industries Inc. Ryder System Inc. Synchrony Financial	19,423 34,509 25,142 76,654 43,749 31,179 24,165 59,139	43,176 5,027 3,853 3,284 2,973 2,893 2,753 2,589 1,914

		Shares	Market Value• (\$000)
	Fidelity National Information		
*	Services Inc.	29,147	1,709
	General Dynamics Corp.	6,745	1,666
	Matson Inc.	17,265	1,653
	Gates Industrial Corp. plc	131,568	1,613
	Knight-Swift Transportation Holdings Inc. ManpowerGroup Inc.	27,445 19,494	1,476 1,447
*	PayPal Holdings Inc.	23,976	1,381
	L3Harris Technologies Inc.	7,071	1,349
	Global Payments Inc.	9,941	1,158
*	Teekay Tankers Ltd. Class A BlueLinx Holdings Inc. Schneider National Inc.	22,726 12,281	1,129 1,079
*	Class B	45,518	1,048
	Genco Shipping & Trading Ltd.	62,969	977
	Resideo Technologies Inc.	54,976	903
*	Bread Financial Holdings Inc. PagSeguro Digital Ltd. Class A	31,133 82,502	875 832
	Quanex Building Products		
*	Corp.	26,390	813
	AGCO Corp.	7,088	805
	Patrick Industries Inc.	9,806	804
	Titan International Inc.	61,059	798
	Terex Corp.	15,813	783
	Scorpio Tankers Inc.	13,881	762
	Sensata Technologies Holding plc	23,017	748
	Huntington Ingalls Industries Inc. MDU Resources Group Inc.	3,089 36,690	732 702
	Allison Transmission Holdings Inc. Louisiana-Pacific Corp.	13,080 11,400	700 695
*	Herc Holdings Inc.	5,495	679
	Atkore Inc.	5,210	677
	Ardmore Shipping Corp.	49,343	671
	Deluxe Corp.	36,339	665
	Acuity Brands Inc.	3,648	654
	Regal Rexnord Corp.	5,453	653
	International Seaways Inc.	14,219	649
*	Air Transport Services Group Inc.	40,052	637
	Conduent Inc.	209,415	637
	Owens Corning	4,574	620
*	Manitowoc Co. Inc.	42,685	612
	CoreCivic Inc.	41,869	606
*	Textron Inc.	7,766	595
	Cross Country Healthcare Inc.	29,046	589
*	JELD-WEN Holding Inc.	36,819	588
	Wabash National Corp.	26,756	586
*	Brunswick Corp.	7,057	557
	Hireright Holdings Corp.	39,604	521
*	BrightView Holdings Inc.	67,757	518
*	American Woodmark Corp.	7,147	517
	REV Group Inc.	32,185	508
	Safe Bulkers Inc.	128,333	498
*	Costamare Inc. Tutor Perini Corp.	48,341	489 470
*	Alight Inc. Class A MKS Instruments Inc.	56,201 59,193 5,480	453 452
*	Insteel Industries Inc.	13,207	449
	Repay Holdings Corp.	59,074	443
	Greif Inc. Class A	6,189	433
*	Dorian LPG Ltd.	9,969	422
	Builders FirstSource Inc.	3,124	419

	Shares	Market Value• (\$000)
 * ASGN Inc. 3M Co. * Titan Machinery Inc. * Green Dot Corp. Class A 	4,559 3,965 16,090 45,758	407 393 368 367
Korn Ferry ArcBest Corp. Kelly Services Inc. Class A SFL Corp. Ltd. * DXP Enterprises Inc.	6,854 2,957 16,723 29,495 11,254	355 352 348 335 330
DHT Holdings Inc. * AMN Healthcare Services Inc.	32,563 4,772	324 324
GATX Corp. Resources Connection Inc. * StoneCo. Ltd. Class A * Hillman Solutions Corp. First Advantage Corp. Griffon Corp.	2,809 20,252 16,844 31,837 14,422 4,686	306 275 263 233 224 218
Covenant Logistics Group In * Teekay Corp. EnerSys TTEC Holdings Inc. Kronos Worldwide Inc. Werner Enterprises Inc. Holdick & Strugoloc	ic. 4,270 26,051 1,921 8,982 16,810 3,549	182 180 170 168 147 142
Heidrick & Struggles International Inc. * Hub Group Inc. Class A Greenbrier Cos. Inc. United Rentals Inc. PACCAR Inc.	4,801 1,656 3,286 139 518	130 125 124 66 48
Real Estate (0.3%) Newmark Group Inc. Class A	A 101,637	78,094 836
 Jones Lang LaSalle Inc. * Anywhere Real Estate Inc. 	4,559 51,261	709 276
Technology (6.1%)		1,821
QUALCOMM Inc. HP Inc. Concentrix Corp. * DXC Technology Co. * TTM Technologies Inc.	23,838 99,273 29,751 119,734 109,562	3,076 2,913 2,796 2,770 1,645
Hewlett Packard Enterprise Co. * Coherent Corp.	88,370 35,953	1,494 1,323
 RingCentral Inc. Class A Ziff Davis Inc. TD SYNNEX Corp. International Business 	46,126 19,185 11,486	1,313 1,224 1,133
Machines Corp. * Synaptics Inc. Xerox Holdings Corp.	6,260 9,620 68,579	993 974 959
 * NCR Voyix Corp. Skyworks Solutions Inc. 	56,452 8,895	885 862
 Qorvo Inc. Dropbox Inc. Class A Amkor Technology Inc. Adeia Inc. Intel Corp. 	8,748 28,288 25,036 76,195 15,133	844 797 705 700 677
Science Applications International Corp. Vishay Intertechnology Inc.	5,587 26,841	656 597
 * Alpha & Omega Semiconductor Ltd. * ScanSource Inc. 	27,247 15,204	583 508

	Shares	Market Value• (\$000)	Shares	Market Value• (\$000)
 Consensus Cloud So Inc. SS&C Technologies F 	24,501	451	* CommScope Holding Co. Inc. 709,490 Cisco Systems Inc. 19,870 * Liberty Latin America Ltd.	1,185 961
Inc.	8,006	450	Class C 124.594	851
Microchip Technology	/ Inc. 5,263	439	Cable One Inc. 1,594	848
* Ultra Clean Holdings		435	Bel Fuse Inc. Class B 14,982	811
* Sanmina Corp.	8,404	421	 Liberty Latin America Ltd. 	
* NetScout Systems Ir	nc. 18,519	372	Class A 32,631	221
Dun & Bradstreet Ho	ldings 34.715	368	-	24,146
 * Alphabet Inc. Class C 		351	Total Common Stocks (Cost \$590,794)	588,250
* Photronics Inc.	15,383	325		000,200
 * Verint Systems Inc. 	13,136	323	Temporary Cash Investments (0.3%)	
Cognizant Technology		020	Money Market Fund (0.3%)	
Solutions Corp. Cla		291	^{2,3} Vanguard Market Liquidity	
Methode Electronics	Inc. 11,334	269	Fund, 5.438%	
* E2open Parent Holdi	ngs Inc. 70,389	256	(Cost \$1,887) 18,871	1,887
* Cohu Inc.	7,717	245	Total Investments (99.8%)	
* SolarWinds Corp.	17,241	200	(Cost \$592,681)	590,137
* Digital Turbine Inc.	42,217	196	Other Assets and Liabilities-Net (0.2%)	1.046
 * Arrow Electronics Ind 		168	Other Assets and Liabilities—Net (0.2%)	1,246
Immersion Corp.	17,520	114	Net Assets (100%)	591,383
	-	36,101	Cost is in \$000.	
Telecommunications (4	4.1%)	,	See Note A in Notes to Financial Statements.	
Verizon Communicat		5,467	* Non-income-producing security.	
AT&T Inc.	252,526	4,184		dooloro Tho
Comcast Corp. Class	A 93,653	3,923	 Includes partial security positions on loan to broker- total value of securities on loan is \$305.000. 	dealers. The
* Charter Communicat		-,	2 Affiliated money market fund available only to Vanc	word funda
Class A	6,839	2,736	and certain trusts and accounts managed by Vangu	
T-Mobile US Inc.	10,446	1,572	shown is the 7-day yield.	iiu. nate
Telephone and Data Inc.	Systems 70,408	1,387	3 Collateral of \$320,000 was received for securities o	n loan.

Derivative Financial Instruments Outstanding as of Period End

Futures Contracts

				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
E-mini S&P 500 Index	December 2023	10	2,288	142
Micro E-mini S&P 500 Index	December 2023	11	252	4
				146

See accompanying Notes, which are an integral part of the Financial Statements.

Statement of Assets and Liabilities

As of November 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount	
Assets		
Investments in Securities, at Value ¹		
Unaffiliated Issuers (Cost \$590,794)	588,250	
Affiliated Issuers (Cost \$1,887)	1,887	
Total Investments in Securities	590,137	
Investment in Vanguard	20	
Cash Collateral Pledged—Futures Contracts	128	
Receivables for Investment Securities Sold	25	
Receivables for Accrued Income	1,481	
Variation Margin Receivable—Futures Contracts	10	
Total Assets	591,801	
Liabilities		
Due to Custodian	58	
Payables for Investment Securities Purchased	8	
Collateral for Securities on Loan	320	
Payables to Vanguard	32	
Total Liabilities	418	
Net Assets	591,383	

1 Includes \$305,000 of securities on loan.

At November 30, 2023, net assets consisted of:

Paid-in Capital	683,111
Total Distributable Earnings (Loss)	(91,728)
Net Assets	591,383
Net Assets	
Applicable to 5,725,000 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	591,383
Net Asset Value Per Share	\$103.30

Statement of Operations

	Year Ended November 30, 2023
	(\$000)
Investment Income	
Income	
Dividends ¹	16,538
Interest ²	123
Securities Lending—Net	26
Total Income	16,687
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	169
Management and Administrative	484
Marketing and Distribution	33
Custodian Fees	8
Auditing Fees	28
Shareholders' Reports	35
Trustees' Fees and Expenses	
Other Expenses	16
Total Expenses	773
Expenses Paid Indirectly	(2)
Net Expenses	771
Net Investment Income	15,916
Realized Net Gain (Loss)	
Investment Securities Sold ^{2,3}	37,172
Futures Contracts	(102)
Realized Net Gain (Loss)	37,070
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ²	(61,973)
Futures Contracts	131
Change in Unrealized Appreciation (Depreciation)	(61,842)
Net Increase (Decrease) in Net Assets Resulting from Operations	(8,856)

1 Dividends are net of foreign withholding taxes of \$5,000.

2 Interest income, realized net gain (loss), capital gain distributions received, and change in unrealized appreciation (depreciation) from an affiliated company of the fund were \$117,000, \$1,000, less than \$1,000, and less than \$1,000, respectively. Purchases and sales are for temporary cash investment purposes.

3 Includes \$69,063,000 of net gain (loss) resulting from in-kind redemptions.

Statement of Changes in Net Assets

	Year Ended November 30,	
	2023 (\$000)	2022 (\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	15,916	13,988
Realized Net Gain (Loss)	37,070	29,868
Change in Unrealized Appreciation (Depreciation)	(61,842)	(11,726)
Net Increase (Decrease) in Net Assets Resulting from Operations	(8,856)	32,130
Distributions		
Total Distributions	(15,929)	(12,731)
Capital Share Transactions		
Issued	221,012	413,815
Issued in Lieu of Cash Distributions	—	_
Redeemed	(275,525)	(210,797)
Net Increase (Decrease) from Capital Share Transactions	(54,513)	203,018
Total Increase (Decrease)	(79,298)	222,417
Net Assets		
Beginning of Period	670,681	448,264
End of Period	591,383	670,681

Financial Highlights

For a Share Outstanding			Year	Ended Nov	ember 30,
Throughout Each Period	2023	2022	2021	2020	2019
Net Asset Value, Beginning of Period	\$105.20	\$99.84	\$73.96	\$75.51	\$74.35
Investment Operations					
Net Investment Income ¹	2.689	2.220	1.923	1.689	1.671
Net Realized and Unrealized Gain (Loss) on Investments	(1.898)	5.212	25.644	(1.634)	1.053
Total from Investment Operations	.791	7.432	27.567	.055	2.724
Distributions					
Dividends from Net Investment Income	(2.691)	(2.072)	(1.687)	(1.605)	(1.564)
Distributions from Realized Capital Gains	_	_	_	_	_
Total Distributions	(2.691)	(2.072)	(1.687)	(1.605)	(1.564)
Net Asset Value, End of Period	\$103.30	\$105.20	\$99.84	\$73.96	\$75.51
Total Return	0.97%	7.63%	37.51%	0.70%	3.83%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$591	\$671	\$448	\$133	\$81
Ratio of Total Expenses to Average Net Assets	0.13% ²	0.13% ²	0.13%	0.14%²	0.14% ²
Ratio of Net Investment Income to Average Net Assets	2.68%	2.22%	1.98%	2.68%	2.32%
Portfolio Turnover Rate	24% ³	64% ³	43% ³	52% ³	73%

1 Calculated based on average shares outstanding.

2 The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.13%.

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

Notes to Financial Statements

Vanguard U.S. Value Factor ETF is registered under the Investment Company Act of 1940 as an open-end investment company, or mutual fund. ETF Shares are listed for trading on Cboe BZX Exchange, Inc.; they can be purchased and sold through a broker.

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

1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been 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 objective of maintaining full exposure to the stock market while maintaining liquidity. The fund may purchase or sell futures contracts to achieve a desired level of investment, whether to accommodate portfolio turnover or cash flows from capital share transactions. 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 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 November 30, 2023, the fund's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

3. 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.

4. 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.

5. 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.

6. Credit Facilities and Interfund Lending Program: The fund and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the fund's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the fund's board of trustees and included in Management and Administrative expenses on the fund's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the fund and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the fund may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the fund's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the year ended November 30, 2023, the fund did not utilize the credit facilities or the Interfund Lending Program.

7. 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.

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 November 30, 2023, the fund had contributed to Vanguard capital in the amount of \$20,000, representing less than 0.01% of the fund's net assets and 0.01% 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 November 30, 2023, custodian fee offset arrangements reduced the fund's expenses by \$2,000 (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.

At November 30, 2023, 100% of the market value of the fund's investments and derivatives was determined based on Level 1 inputs.

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 were reclassified between the following accounts:

	Amount (\$000)
Paid-in Capital	69,063
Total Distributable Earnings (Loss)	(69,063)

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to capital loss carryforwards; the deferral of losses from wash sales; and the recognition of unrealized gains or losses from certain derivative contracts. 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	3,053
Undistributed Long-Term Gains	_
Net Unrealized Gains (Losses)	(2,544)
Capital Loss Carryforwards	(92,237)
Qualified Late-Year Losses	_
Other Temporary Differences	—
Total	(91,728)

The tax character of distributions paid was as follows:

	Year Ended No	Year Ended November 30,	
	2023 Amount (\$000)	2022 Amount (\$000)	
Ordinary Income*	15,929	12,731	
Long-Term Capital Gains	_	_	
Total	15,929	12,731	

* Includes short-term capital gains, if any.

As of November 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	592,681
Gross Unrealized Appreciation	45,180
Gross Unrealized Depreciation	(47,724)
Net Unrealized Appreciation (Depreciation)	(2,544)

F. During the year ended November 30, 2023, the fund purchased \$361,009,000 of investment securities and sold \$415,754,000 of investment securities, other than temporary cash investments. Purchases and sales include \$0 and \$273,417,000, 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 November 30, 2023, such purchases were \$4,005,000 and sales were \$2,190,000, resulting in net realized gain of \$28,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

G. Capital shares issued and redeemed were:

	Year Ended No	Year Ended November 30,	
	2023 Shares (000)	2022 Shares (000)	
Issued	2,120	4,035	
Issued in Lieu of Cash Distributions	_	_	
Redeemed	(2,770)	(2,150)	
Net Increase (Decrease) in Shares Outstanding	(650)	1,885	

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

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

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

At November 30, 2023, two shareholders were each a record or beneficial owner of 25% of the fund's net assets, with a combined ownership of 54%. If any of these shareholders were to redeem their investment in the fund, the redemption might result in an increase in the fund's expense ratio, cause the fund to incur higher transaction costs or lead to the realization of taxable capital gains.

I. Management has determined that no events or transactions occurred subsequent to November 30, 2023, that would require recognition or disclosure in these financial statements.

Report of Independent Registered Public Accounting Firm

To the Board of Trustees of Vanguard Wellington Fund and Shareholders of Vanguard U.S. Minimum Volatility ETF, Vanguard U.S. Momentum Factor ETF, Vanguard U.S. Multifactor ETF, Vanguard U.S. Quality Factor ETF and Vanguard U.S. Value Factor ETF

Opinions on the Financial Statements

We have audited the accompanying statements of assets and liabilities, including the schedules of investments, of Vanguard U.S. Minimum Volatility ETF, Vanguard U.S. Momentum Factor ETF, Vanguard U.S. Multifactor ETF, Vanguard U.S. Quality Factor ETF and Vanguard U.S. Value Factor ETF (five of the funds constituting Vanguard Wellington Fund, hereafter collectively referred to as the "Funds") as of November 30, 2023, the related statements of operations for the year ended November 30, 2023, including the related notes, and the financial highlights for each of the five years in the period ended November 30, 2023 (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 November 30, 2023, the results of each of the two years in the period ended November 30, 2023 and each of the financial highlights for each of the two years in the period ended November 30, 2023 and each of the financial position of each of the Funds as of November 30, 2023 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 November 30, 2023 by correspondence with the custodian, transfer agent and brokers; when replies were not received from brokers, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinions.

/s/PricewaterhouseCoopers LLP Philadelphia, Pennsylvania January 19, 2024

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
U.S. Minimum Volatility ETF	91.1%
U.S. Momentum Factor ETF	86.1
U.S. Multifactor ETF	97.5
U.S. Quality Factor ETF	100.0
U.S. Value Factor ETF	96.1

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)
U.S. Minimum Volatility ETF	1,941
U.S. Momentum Factor ETF	3,438
U.S. Multifactor ETF	3,596
U.S. Quality Factor ETF	3,513
U.S. Value Factor ETF	15,929

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)
U.S. Minimum Volatility ETF	6
U.S. Momentum Factor ETF	17
U.S. Multifactor ETF	9
U.S. Quality Factor ETF	12
U.S. Value Factor ETF	33

This page intentionally left blank.

This page intentionally left blank.

This page intentionally left blank.

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 Trustee¹

Mortimer J. Buckley

Born in 1969, Trustee since January 2018, Principal occupation(s) during the past five years and other experience: chairman of the board (2019-present) of Vanguard and of each of the investment companies served by Vanguard; chief executive officer (2018-present) of Vanguard: chief executive officer. president, and trustee (2018-present) of each of the investment companies served by Vanguard; president and director (2017-present) of Vanguard; and president (2018-present) of Vanguard Marketing Corporation. Chief investment officer (2013-2017), managing director (2002-2017), head of the Retail Investor Group (2006-2012), and chief information officer (2001–2006) of Vanguard. Member of the board of governors of the Investment Company Institute and the board of governors of FINRA.

Independent Trustees

Tara Bunch

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

Emerson U. Fullwood

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

F. Joseph Loughrey

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

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

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

officer (retired 2013) of IBM (information technology services). Fiduciary member of IBM's Retirement Plan Committee (2004–2013), senior vice president and general manager (2002–2004) of IBM Global Financing, vice president and controller (1998–2002) of IBM, and a variety of other prior management roles at IBM. Member of the Council on Chicago Booth.

Scott C. Malpass

Born in 1962. Trustee since March 2012. Principal occupation(s) during the past five years and other experience: co-founder and managing partner (2022–present) of Grafton Street Partners (investment advisory firm). Chief investment officer (retired 2020) and vice president (retired 2020) of the University of Notre Dame. Chair of the board of Catholic Investment Services, Inc. (investment advisors). Member of the board of superintendence of the Institute for the Works of Religion, the Notre Dame 403(b) Investment Committee, and the board of directors of Paxos Trust Company (finance).

Deanna Mulligan

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

André F. Perold

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

Sarah Bloom Raskin

Born in 1961. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: deputy secretary (2014–2017) of the United States Department of the Treasury. Governor (2010–2014) of the Federal Reserve Board. Commissioner (2007–2010) of financial regulation for the State of Maryland. Colin W. Brown Distinguished Professor of the Practice of Law, Duke Law School (2021–present); Rubenstein Fellow, Duke University (2017–2020); Distinguished Fellow of the Global

Financial Markets Center, Duke Law School (2020–2022); and Senior Fellow, Duke Center on Risk (2020–present). Partner of Kaya Partners (climate policy advisory services). Member of the board of directors of Arcadia (energy solution technology).

Grant Reid

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

David Thomas

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

Peter F. Volanakis

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

Executive Officers

Jacqueline Angell

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

Christine M. Buchanan

Born in 1970. Principal occupation(s) during the past five years and other experience: principal of Vanguard. Chief financial officer (2021–present) and treasurer (2017–2022) of each of the investment companies served by Vanguard. Partner (2005–2017) at KPMG (audit, tax, and advisory services).

John Galloway

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

Ashley Grim

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

Jodi Miller

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

Anne E. Robinson

Born in 1970. Principal occupation(s) during the past five years and other experience: general counsel (2016–present) of Vanguard. Secretary (2016–present) of Vanguard and of each of the investment icompanies served by Vanguard. Managing director (2016–present) of Vanguard. Managing director and general counsel of Global Cards and Consumer Services (2014–2016) at Citigroup. Counsel (2003–2014) at American Express. Nonexecutive director (2022–present) of the board of National Grid (energy).

Michael Rollings

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

Vanguard Senior Management Team

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

Vanguard

Connect with Vanguard[®] > vanguard.com

Fund Information > 800-662-7447

Direct Investor Account Services > 800-662-2739

Institutional Investor Services > 800-523-1036

Text Telephone for People Who Are Deaf or Hard of Hearing > 800-749-7273

This material may be used in conjunction with the offering of shares of any Vanguard fund only if preceded or accompanied by the fund's current prospectus.

All comparative mutual fund data are from Morningstar, Inc., unless otherwise noted.

You can obtain a free copy of Vanguard's proxy voting guidelines by visiting vanguard.com/proxyreporting or by calling Vanguard at 800-662-2739. The guidelines are also available from the SEC's website, www.sec.gov. In addition, you may obtain a free report on how your fund voted the proxies for securities it owned during the 12 months ended June 30. To get the report, visit either vanguard.com/proxyreporting or www.sec.gov.

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

Source for Bloomberg indexes: Bloomberg Index Services Limited. Copyright 2024, Bloomberg. All rights reserved.

> © 2024 The Vanguard Group, Inc. All rights reserved. Vanguard Marketing Corporation, Distributor.

Q44190 012024