



Annual Report | December 31, 2019

Vanguard Variable Insurance Fund

High Yield Bond Portfolio

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

Important information about access to shareholder reports

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

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

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

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A Note From Our Chairman



Tim Buckley
Chairman and Chief Executive Officer

Dear Planholder,

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

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

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

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

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Mortimer J. Buckley". The signature is fluid and cursive, with a long, sweeping tail on the last name.

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

High Yield Bond Portfolio

Your Portfolio's Performance at a Glance

- For the 12 months ended December 31, 2019, the High Yield Bond Portfolio returned 15.67%, ahead of its benchmark, the High-Yield Corporate Composite Index (+14.61).
- Stocks and bonds recorded their best results in years. Stocks benefited from accommodative monetary policies implemented by the Federal Reserve and other major central banks. With the U.S.-China trade conflict fueling economic growth concerns, investors were also drawn to assets, like bonds, that are generally considered safer.
- U.S. Treasuries returned nearly 7%. Mortgage-backed securities returned a little less than that, but corporate bonds fared even better, returning more than 14%. By credit quality, lower-rated investment-grade bonds bested higher-rated ones; by maturity, longer-dated bonds significantly outperformed shorter-dated ones.
- Within the high-yield market, however, higher-quality bonds generally outperformed those of lower quality, with BB- and B-rated bonds posting higher returns than their CCC-rated counterparts.
- For the ten years ended December 31, 2019, the portfolio posted an average annual return of 7.01%. Its benchmark index recorded an average annual return of 7.14%.
- Please note that the portfolio returns in Vanguard Variable Insurance Fund are different from those in Vanguard Variable Annuity (and other plans that invest in the fund), which take into account insurance-related expenses.

Market Barometer

	Average Annual Total Returns Periods Ended December 31, 2019		
	One Year	Three Years	Five Years
Stocks			
Russell 1000 Index (Large-caps)	31.43%	15.05%	11.48%
Russell 2000 Index (Small-caps)	25.53	8.59	8.23
Russell 3000 Index (Broad U.S. market)	31.02	14.57	11.24
FTSE All-World ex US Index (International)	21.81	9.96	5.83
Bonds			
Bloomberg Barclays U.S. Aggregate Bond Index (Broad taxable market)	8.72%	4.03%	3.05%
Bloomberg Barclays Municipal Bond Index (Broad tax-exempt market)	7.54	4.72	3.53
FTSE Three-Month U.S. Treasury Bill Index	2.25	1.65	1.04
CPI			
Consumer Price Index	2.29%	2.10%	1.82%

Advisor's Report

The investment environment

For the 12 months ended December 31, 2019, the High Yield Bond Portfolio returned 15.67%, compared with the benchmark return of 14.61%. Please note that the portfolio returns in Vanguard Variable Insurance Fund are different from those in Vanguard Variable Annuity (and other plans that invest in the fund), which take into account insurance-related expenses.

High-yield markets benefited from both decreasing interest rates and tightening credit spreads. Sovereign yields declined across most markets after the injection of monetary stimulus by the U.S. Federal Reserve and the European Central Bank. With a U.S.-China trade agreement proving elusive, Brexit still unresolved, and an impeachment trial looking likely in the U.S., geopolitical uncertainty remained elevated for much of the period.

Despite these concerns, high-yield bond spreads tightened on optimism that monetary accommodation could offset the drag on global growth from restrictive trade policies. The Fed cut rates three times but later indicated it would adopt a wait-and-see stance to assess incoming economic data and track trade-negotiation developments.

The 10-year U.S. Treasury yield decreased to 1.92% by the end of December 2019 from 2.69% a year earlier. Major central banks deployed more accommodative policies amid trade headwinds, geopolitical tensions, and weaker global growth data, contributing to the decline in Treasury yields.

This dynamic lifted bond prices, as bond yields and bond prices generally move in opposite directions. The spread of the high-yield market tightened to 336 basis points over Treasuries as of December 31, 2019, from 526 basis points a year earlier.

(A basis point is one-hundredth of a percentage point.) The average price of the high-yield market increased \$8 to \$101 per \$100 of par or face value.

There was notable dispersion in performance by credit quality, with the high-yield market generally rewarding higher-credit-quality corporate bonds during the period. Highest-rated BB bonds led (returning 15.51%, according to Bloomberg Barclays U.S. Corporate High Yield Index data), while CCC-rated bonds (+9.52%) lagged and B-rated bonds returned 14.80%.

Although our macroeconomic outlook is somewhat mixed as we move into the new calendar year, we believe that the probability of a U.S. recession in 2020 is declining. Looking ahead to 2021, the macro environment remains unclear, which tempers our overall macroeconomic outlook. High-yield fundamentals and technicals, however, remain supportive, and while we expect defaults to increase over the next 12 months, we do not believe we are on the verge of the next default cycle.

High-yield spreads are inside historical median levels, but there is a bifurcation in higher- and lower-quality spreads, and we are finding attractive idiosyncratic opportunities. We also expect bouts of spread-widening around developments in the U.S. presidential race, and these may present attractive total-return opportunities.

Overall, we forecast a below-coupon—but still positive—total return for high yield in 2020, with security selection the key driver of benchmark-relative outperformance. Although high-yield spreads appear tight by historical standards, the asset class should generate attractive income, and technicals remain supportive as the demand for income persists around much of the globe.

Moody's trailing 12-month global issuer-weighted speculative-grade default rate ended November 2019 at 2.8%, below the long-term average of 4.2%. Although bouts of volatility may persist, we continue to take a long-term, issuer-specific approach to finding opportunities in this market.

Global political uncertainty and elevated trade tensions may contribute to additional bouts of market volatility. However, most of the high-yield companies within our opportunity set operate in domestically focused industries. While we are more uncertain about the long-term U.S. macroeconomic outlook, we continue to favor higher-quality issuers expected to benefit from a stable U.S. consumer.

As we move into 2020, global trade represents a key source of uncertainty. The prospects for global growth likely hinge on whether trade policy developments lead to stability or push down manufacturing (and, subsequently, the consumer). However, we assign a low probability of U.S. and euro area recession over the next year.

The portfolio's shortfalls

Positioning and security selection within the wirelines and consumer cyclical services sectors detracted from relative returns, as did credit selection in utilities.

The portfolio's successes

The portfolio benefited from positioning and positive credit selection within the financial institutions sector, as well as credit selection within the media and entertainment sector. An underweight to government securities also helped relative performance.

The portfolio's positioning

The portfolio remains consistent in its investment objective and strategy and maintains meaningful exposure to relatively higher-quality names within the high-yield market. We believe these companies have more stable credit profiles and greater predictability of cash flows than those at the lower end of the quality spectrum.

We prefer higher-quality credits in an effort to minimize defaults and to provide stable income. We continue to diversify the portfolio's holdings by issuer and industry. We also continue to deemphasize non-cash-paying securities, preferred stocks, and equity-linked securities, such as convertibles, because of their potential for volatility.

Michael L. Hong, CFA
Senior Managing Director and Fixed
Income Portfolio Manager

Wellington Management Company LLP

January 24, 2020

About Your Portfolio's Expenses

As a shareholder of the portfolio, 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 portfolio's gross income, directly reduce the investment return of the portfolio.

A portfolio'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 portfolio 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 table below illustrates your portfolio's costs in two ways:

- **Based on actual portfolio 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 portfolio'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 portfolio. 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 portfolio under the heading "Expenses Paid During Period."

- **Based on hypothetical 5% yearly return.** This section is intended to help you compare your portfolio's costs with those of other mutual funds. It assumes that the portfolio 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 portfolio'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 portfolio'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 portfolio for buying and selling securities. The portfolio's expense ratio does not reflect additional fees and expenses associated with the annuity or life insurance program through which you invest.

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 portfolio's expenses in the Financial Statements section. For additional information on operating expenses and other shareholder costs, please refer to the prospectus.

Six Months Ended December 31, 2019

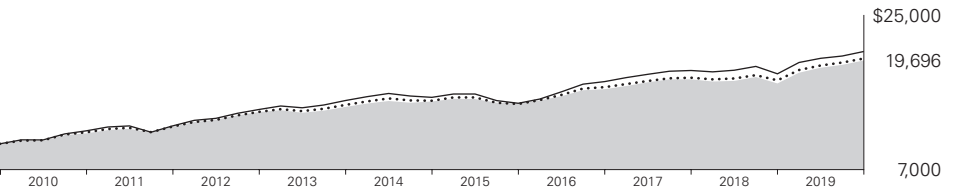
	Beginning Account Value 6/30/2019	Ending Account Value 12/31/2019	Expenses Paid During Period
High Yield Bond Portfolio			
Based on Actual Portfolio Return	\$1,000.00	\$1,044.64	\$1.34
Based on Hypothetical 5% Yearly Return	1,000.00	1,023.89	1.33

The calculations are based on expenses incurred in the most recent six-month period. The portfolio's annualized six-month expense ratio for that period is 0.26%. The dollar amounts shown as "Expenses Paid" are equal to the annualized expense ratio multiplied by the average account value over the period, multiplied by the number of days in the most recent six-month period, then divided by the number of days in the most recent 12-month period (184/365).

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 portfolio. (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 portfolio distributions or on the sale of portfolio shares. Nor do the returns reflect fees and expenses associated with the annuity or life insurance program through which a shareholder invests. If these fees and expenses were included, the portfolio’s returns would be lower.

Cumulative Performance: December 31, 2009–December 31, 2019
Initial Investment of \$10,000



	Average Annual Total Returns Periods Ended December 31, 2019			Final Value of a \$10,000 Investment
	One Year	Five Years	Ten Years	
High Yield Bond Portfolio	15.67%	5.70%	7.01%	\$19,696
High-Yield Corporate Composite Index	14.61	5.83	7.14	19,929
Bloomberg Barclays U.S. Corporate High Yield Index	14.32	6.13	7.57	20,747

High-Yield Corporate Composite Index: Weighted 95% Bloomberg Barclays U.S. High-Yield Ba/B 2% Issuer Capped Index and 5% Bloomberg Barclays U.S. 1-5 Year Treasury Bond Index.

Sector Diversification

As of December 31, 2019

Basic Industry	4.0%
Capital Goods	13.6
Communication	19.8
Consumer Cyclical	14.5
Consumer Non-Cyclical	12.8
Energy	9.6
Finance	12.8
Other Industrial	0.8
Technology	9.9
Transportation	0.2
Other	0.4
Utilities	1.6

The table reflects the portfolio's market exposure. Any holdings in short-term reserves are excluded. The agency and mortgage-backed securities sectors may include issues from government sponsored enterprises; such issues are generally not backed by the full faith and credit of the U.S. government.

High Yield Bond Portfolio

		Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)			Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)
²	BBA US Holdings Inc.	4.000%	3/1/28	1,900	1,872						
²	Beacon Escrow Corp.	4.875%	11/1/25	2,585	2,591			5.125%	2/15/23	400	405
²	Beacon Roofing Supply Inc.	4.500%	11/15/26	305	315	²	CCO Holdings LLC / CCO Holdings Capital Corp.	5.125%	5/1/23	2,990	3,046
²	Berry Global Escrow Corp.	5.625%	7/15/27	215	231		CCO Holdings LLC / CCO Holdings Capital Corp.	5.750%	9/1/23	1,150	1,166
²	Berry Global Inc.	4.500%	2/15/26	1,655	1,701		CCO Holdings LLC / CCO Holdings Capital Corp.	5.750%	1/15/24	66	67
²	Berry Global Inc.	4.875%	7/15/26	1,630	1,729	²	CCO Holdings LLC / CCO Holdings Capital Corp.	5.375%	5/1/25	2,871	2,964
²	Bombardier Inc.	5.750%	3/15/22	675	697	²	CCO Holdings LLC / CCO Holdings Capital Corp.	5.750%	2/15/26	1,450	1,524
²	Bombardier Inc.	6.125%	1/15/23	2,698	2,759	²	CCO Holdings LLC / CCO Holdings Capital Corp.	5.500%	5/1/26	1,386	1,459
²	Bombardier Inc.	7.500%	12/1/24	460	483	²	CCO Holdings LLC / CCO Holdings Capital Corp.	5.875%	5/1/27	445	469
²	Bombardier Inc.	7.500%	3/15/25	1,412	1,454		CenturyLink Inc.	5.800%	3/15/22	303	318
²	Bombardier Inc.	7.875%	4/15/27	1,675	1,721		CenturyLink Inc.	6.750%	12/1/23	755	842
²	CD&R Waterworks Merger Sub LLC	6.125%	8/15/25	160	166		CenturyLink Inc.	7.500%	4/1/24	557	629
²	Cemex SAB de CV	6.125%	5/5/25	3,280	3,403		Charter Communications Operating LLC / Charter Communications Operating Capital	6.484%	10/23/45	891	1,110
²	Cemex SAB de CV	7.750%	4/16/26	735	801	²	CSC Holdings LLC	6.750%	11/15/21	1,735	1,861
²	Clean Harbors Inc.	4.875%	7/15/27	960	1,010	²	CSC Holdings LLC	5.375%	7/15/23	280	287
²	Clean Harbors Inc.	5.125%	7/15/29	768	818	²	CSC Holdings LLC	6.625%	10/15/25	700	743
	Crown Americas LLC / Crown Americas Capital Corp. IV	4.500%	1/15/23	300	315	²	CSC Holdings LLC	5.500%	5/15/26	3,890	4,114
	Crown Americas LLC / Crown Americas Capital Corp. VI	4.750%	2/1/26	1,415	1,493	²	CSC Holdings LLC	5.500%	4/15/27	2,610	2,796
^{2.5}	Crown European Holdings SA	2.875%	2/1/26	1,555	1,890		DISH DBS Corp.	6.750%	6/1/21	4,530	4,751
²	Flex Acquisition Co. Inc.	6.875%	1/15/25	4,000	4,030		DISH DBS Corp.	5.875%	7/15/22	3,746	3,971
²	HD Supply Inc.	5.375%	10/15/26	1,210	1,283	²	DISH DBS Corp.	5.000%	3/15/23	1,384	1,417
²	Herc Holdings Inc.	5.500%	7/15/27	3,700	3,894	²	DISH DBS Corp.	5.875%	11/15/24	2,405	2,450
²	Jeld-Wen Inc.	4.625%	12/15/25	345	354	²	DISH DBS Corp.	7.750%	7/1/26	3,260	3,447
²	Jeld-Wen Inc.	4.875%	12/15/27	195	199		Embarq Corp.	7.995%	6/1/36	720	760
²	LANXESS AG	6.000%	4/1/24	288	296	²	Gannett Co. Inc.	6.375%	10/15/23	850	877
^{2.5}	Loxam SAS	4.250%	4/15/24	190	220	²	Gray Escrow Inc.	7.000%	5/15/27	415	462
²	OI European Group BV	4.000%	3/15/23	675	680	²	Gray Television Inc.	5.125%	10/15/24	1,961	2,032
²	Owens-Brockway Glass Container Inc.	5.000%	1/15/22	180	187	²	Gray Television Inc.	5.875%	7/15/26	1,470	1,564
²	Owens-Brockway Glass Container Inc.	5.875%	8/15/23	2,140	2,284	²	iHeartCommunications Inc.	4.750%	1/15/28	905	928
²	Owens-Brockway Glass Container Inc.	6.375%	8/15/25	1,195	1,306		Level 3 Financing Inc.	5.375%	8/15/22	1,862	1,869
	Reynolds Group Issuer Inc. / Reynolds Group Issuer LLC / Reynolds Group Issuer Lu	5.750%	10/15/20	644	644		Level 3 Financing Inc.	5.625%	2/1/23	870	873
²	Reynolds Group Issuer Inc. / Reynolds Group Issuer LLC / Reynolds Group Issuer Lu	5.125%	7/15/23	2,240	2,293		Level 3 Financing Inc.	5.125%	5/1/23	1,120	1,130
²	Reynolds Group Issuer Inc. / Reynolds Group Issuer LLC / Reynolds Group Issuer Lu	7.000%	7/15/24	440	455		Nokia Oyj	4.375%	6/12/27	2,210	2,303
²	Standard Industries Inc.	5.500%	2/15/23	295	299	²	Outfront Media Capital LLC / Outfront Media Capital Corp.	4.625%	3/15/30	1,535	1,564
²	Standard Industries Inc.	5.375%	11/15/24	2,323	2,384		Quebecor Media Inc.	5.750%	1/15/23	2,810	3,052
²	Standard Industries Inc.	6.000%	10/15/25	4,295	4,515		Qwest Corp.	6.875%	9/15/33	481	483
²	Standard Industries Inc.	5.000%	2/15/27	495	516	²	Sinclair Television Group Inc.	5.625%	8/1/24	470	484
²	Standard Industries Inc.	4.750%	1/15/28	1,025	1,052	²	Sinclair Television Group Inc.	5.875%	3/15/26	2,740	2,877
	TransDigm Inc.	6.500%	7/15/24	3,090	3,190	²	Sinclair Television Group Inc.	5.125%	2/15/27	1,975	2,029
	TransDigm Inc.	6.500%	5/15/25	2,565	2,671	²	Sirius XM Radio Inc.	4.625%	7/15/24	1,640	1,714
	TransDigm Inc.	6.375%	6/15/26	900	953	²	Sprint Capital Corp.	6.875%	11/15/28	2,915	3,141
²	TransDigm Inc.	5.500%	11/15/27	2,810	2,845		Sprint Capital Corp.	8.750%	3/15/32	2,070	2,515
^{2.5}	Trivium Packaging Finance BV	3.750%	8/15/26	180	214	²	Sprint Communications Inc.	7.000%	3/1/20	2,285	2,296
²	Trivium Packaging Finance BV	5.500%	8/15/26	345	365		Sprint Communications Inc.	6.000%	11/15/22	755	791
	United Rentals North America Inc.	5.500%	7/15/25	2,230	2,314		Sprint Corp.	7.875%	9/15/23	9,234	10,192
	United Rentals North America Inc.	4.625%	10/15/25	1,665	1,713		Sprint Corp.	7.125%	6/15/24	2,101	2,264
	United Rentals North America Inc.	5.875%	9/15/26	1,955	2,092		Sprint Corp.	7.625%	2/15/25	1,595	1,750
	United Rentals North America Inc.	6.500%	12/15/26	1,590	1,745		T-Mobile USA Inc.	6.500%	1/15/26	690	737
	United Rentals North America Inc.	5.500%	5/15/27	2,125	2,274		T-Mobile USA Inc.	5.375%	4/15/27	3,510	3,738
	United Rentals North America Inc.	3.875%	11/15/27	880	899		Telecom Italia Capital SA	6.375%	11/15/33	381	422
	United Rentals North America Inc.	4.875%	1/15/28	1,470	1,527		Telecom Italia Capital SA	6.000%	9/30/34	1,005	1,073
	United Rentals North America Inc.	5.250%	1/15/30	740	794		Telecom Italia Capital SA	7.721%	6/4/38	1,280	1,578
	Communication (17.9%)					²	Telecom Italia SPA	5.303%	5/30/24	445	479
²	Alice Financing SA	6.625%	2/15/23	1,875	1,908	²	Telenet Finance Luxembourg Notes Sarl	5.500%	3/1/28	3,600	3,817
²	Alice France SA	7.375%	5/1/26	4,025	4,312		Time Warner Cable LLC	5.875%	11/15/40	60	69
²	Alice Luxembourg SA	7.625%	2/15/25	1,200	1,243		Time Warner Cable LLC	5.500%	9/1/41	1,223	1,365
	Belo Corp.	7.750%	6/1/27	920	1,065	²	UPCB Finance IV Ltd.	5.375%	1/15/25	2,225	2,286
	Belo Corp.	7.250%	9/15/27	667	759	¹	Viacom Inc.	5.875%	2/28/57	2,560	2,672
	CCO Holdings LLC / CCO Holdings Capital Corp.	5.250%	9/30/22	365	369						

High Yield Bond Portfolio

				Face Amount (\$000)	Market Value* (\$000)				Face Amount (\$000)	Market Value* (\$000)	
	Coupon	Maturity Date					Coupon	Maturity Date			
1	Viacom Inc.	6.250%	2/28/57	944	1,038		Lennar Corp.	4.125%	1/15/22	1,015	1,040
	Videotron Ltd.	5.000%	7/15/22	3,923	4,139		Lennar Corp.	4.875%	12/15/23	625	668
2	Videotron Ltd.	5.375%	6/15/24	260	286		Lennar Corp.	4.500%	4/30/24	3,165	3,343
2	Virgin Media Finance plc	6.000%	10/15/24	1,855	1,908		Lennar Corp.	5.875%	11/15/24	490	546
2	Virgin Media Secured Finance plc	5.500%	8/15/26	940	980		Lennar Corp.	5.250%	6/1/26	270	295
2	Virgin Media Secured Finance plc	5.500%	5/15/29	870	921		Coupon	Maturity			
2	VTR Finance BV	6.875%	1/15/24	2,521	2,568		Lennar Corp.	5.000%	6/15/27	1,245	1,348
2	WMG Acquisition Corp.	5.000%	8/1/23	840	860		Lennar Corp.	4.750%	11/29/27	1,085	1,169
2	WMG Acquisition Corp.	4.875%	11/1/24	1,475	1,525	2,5	LHMC Finco Sarl	6.250%	12/20/23	1,460	1,731
2	WMG Acquisition Corp.	5.500%	4/15/26	2,651	2,790	2	LHMC Finco Sarl	7.875%	12/20/23	1,523	1,607
2,5	WMG Acquisition Corp.	3.625%	10/15/26	220	261	2	Lithia Motors Inc.	5.250%	8/1/25	171	180
	Zayo Group LLC / Zayo Capital Inc.	6.000%	4/1/23	3,315	3,390	2	Lithia Motors Inc.	4.625%	12/15/27	1,745	1,800
2	Ziggo BV	5.500%	1/15/27	1,845	1,949		Meritage Homes Corp.	5.125%	6/6/27	505	539
2	Ziggo BV	4.875%	1/15/30	1,799	1,850		MGM Growth Properties Operating Partnership LP / MGP Finance Co-Issuer Inc.	5.625%	5/1/24	150	164
	Consumer Cyclical (13.2%)						MGM Resorts International	6.000%	3/15/23	680	747
2	1011778 BC ULC / New Red Finance Inc.	4.250%	5/15/24	4,062	4,164		MGM Resorts International	7.500%	6/15/25	1,500	1,680
2	1011778 BC ULC / New Red Finance Inc.	5.000%	10/15/25	3,240	3,361		MGM Resorts International	5.500%	4/15/27	1,365	1,515
2	1011778 BC ULC / New Red Finance Inc.	3.875%	1/15/28	830	834	2	Panther BF Aggregator 2 LP / Panther Finance Co. Inc.	8.500%	5/15/27	540	572
2	Adient Global Holdings Ltd.	4.875%	8/15/26	4,720	4,213	3,4	Panther BF Aggregator Bank Loan, 3M USD LIBOR + 3.500%	5.305%	4/30/26	1,082	1,085
2	Adient US LLC	7.000%	5/15/26	540	589	2	PetSmart Inc.	5.875%	6/1/25	1,252	1,279
2	APX Group Inc.	8.875%	12/1/22	4,155	4,124		PulteGroup Inc.	5.500%	3/1/26	2,075	2,319
3,4	Bass Pro Group, LLC Bank Loan, 3M USD LIBOR + 5.000%	6.799%	12/15/23	1,891	1,882		PulteGroup Inc.	5.000%	1/15/27	130	142
2	Boyd Gaming Corp.	4.750%	12/1/27	2,690	2,794		Service Corp. International	8.000%	11/15/21	1,225	1,347
2	Cedar Fair LP	5.250%	7/15/29	925	997		Service Corp. International	4.625%	12/15/27	505	527
	Cedar Fair LP / Canada's Wonderland Co. / Magnum Management Corp. / Millennium Op	5.375%	4/15/27	775	830		Service Corp. International	5.125%	6/1/29	1,305	1,383
	Cedar Fair LP / Canada's Wonderland Co. / Magnum Management Corp.	5.375%	6/1/24	535	549	2	Speedway Motorsports LLC / Speedway Funding II Inc.	4.875%	11/1/27	600	607
2	CRC Escrow Issuer LLC / CRC Finco Inc.	5.250%	10/15/25	5,768	5,970		Toll Brothers Finance Corp.	4.375%	4/15/23	300	313
	Dana Holding Corp.	5.500%	12/15/24	1,055	1,085		Toll Brothers Finance Corp.	4.875%	11/15/25	295	322
	Delta Merger Sub Inc.	6.000%	9/15/26	1,820	2,004		Toll Brothers Finance Corp.	4.875%	3/15/27	1,955	2,116
2	FirstCash Inc.	5.375%	6/1/24	223	231		William Lyon Homes Inc.	7.000%	8/15/22	64	64
	GLP Capital LP / GLP Financing II Inc.	4.375%	4/15/21	105	107		William Lyon Homes Inc.	6.000%	9/1/23	390	407
	GLP Capital LP / GLP Financing II Inc.	5.375%	11/1/23	2,630	2,858	2	William Lyon Homes Inc.	5.875%	1/31/25	1,415	1,450
	GLP Capital LP / GLP Financing II Inc.	5.375%	4/15/26	1,010	1,104		Wynn Las Vegas LLC / Wynn Las Vegas Capital Corp.	5.500%	3/1/25	3,030	3,242
	GLP Capital LP / GLP Financing II Inc.	5.300%	1/15/29	1,030	1,148		Wynn Las Vegas LLC / Wynn Las Vegas Capital Corp.	5.250%	5/15/27	1,636	1,736
	Goodyear Tire & Rubber Co.	5.000%	5/31/26	2,009	2,094	2	Wynn Resorts Finance LLC / Wynn Resorts Capital Corp.	5.125%	10/1/29	660	706
	Goodyear Tire & Rubber Co.	4.875%	3/15/27	3,278	3,401	2	Yum Brands Inc.	4.750%	1/15/30	400	420
2	Hanesbrands Inc.	4.625%	5/15/24	730	771	Consumer Noncyclical (11.6%)					
2	Hanesbrands Inc.	4.875%	5/15/26	735	775		Aramark Services Inc.	5.125%	1/15/24	1,367	1,403
	Hilton Domestic Operating Co. Inc.	4.250%	9/1/24	1,770	1,801	2	Aramark Services Inc.	5.000%	4/1/25	1,935	2,017
	Hilton Domestic Operating Co. Inc.	5.125%	5/1/26	2,830	2,979		Aramark Services Inc.	4.750%	6/1/26	940	980
	Hilton Domestic Operating Co. Inc.	4.875%	1/15/30	260	276	2	Aramark Services Inc.	5.000%	2/1/28	1,465	1,542
	Hilton Worldwide Finance LLC / Hilton Worldwide Finance Corp.	4.625%	4/1/25	3,395	3,493	2	Avantor Inc.	6.000%	10/1/24	1,000	1,065
	Hilton Worldwide Finance LLC / Hilton Worldwide Finance Corp.	4.875%	4/1/27	1,750	1,857		B&G Foods Inc.	5.250%	9/15/27	3,000	2,996
2	Jack Ohio Finance LLC / Jack Ohio Finance 1 Corp.	6.750%	11/15/21	16	16	2	Bausch Health Americas Inc.	9.250%	4/1/26	520	598
2	Jacobs Entertainment Inc.	7.875%	2/1/24	600	636	2	Bausch Health Cos. Inc.	5.875%	5/15/23	19	19
	KB Home	7.000%	12/15/21	230	247	2	Bausch Health Cos. Inc.	7.000%	3/15/24	1,090	1,134
	KB Home	7.500%	9/15/22	215	242	2	Bausch Health Cos. Inc.	5.500%	11/1/25	2,140	2,236
	KB Home	7.625%	5/15/23	1,300	1,459	2	Bausch Health Cos. Inc.	7.000%	1/15/28	540	595
	KB Home	4.800%	11/15/29	325	332	2	Bausch Health Cos. Inc.	7.250%	5/30/29	60	68
2	KFC Holding Co./Pizza Hut Holdings LLC/Taco Bell of America LLC	5.000%	6/1/24	1,965	2,039	2	Catalent Pharma Solutions Inc.	5.000%	7/15/27	630	660
2	KFC Holding Co./Pizza Hut Holdings LLC/Taco Bell of America LLC	5.250%	6/1/26	872	922	2	Change Healthcare Holdings LLC / Change Healthcare Finance Inc.	5.750%	3/1/25	2,000	2,065
2	KFC Holding Co./Pizza Hut Holdings LLC/Taco Bell of America LLC	4.750%	6/1/27	710	749	2	Charles River Laboratories International Inc.	5.500%	4/1/26	705	759
	L Brands Inc.	6.694%	1/15/27	537	537	2	Charles River Laboratories International Inc.	4.250%	5/1/28	350	357
	L Brands Inc.	5.250%	2/1/28	1,301	1,233		CHS/Community Health Systems Inc.	5.125%	8/1/21	525	526
							CHS/Community Health Systems Inc.	6.250%	3/31/23	3,450	3,493
						2	CHS/Community Health Systems Inc.	8.125%	6/30/24	1,203	986
						2,5	Darling Global Finance BV	3.625%	5/15/26	395	467

High Yield Bond Portfolio

		Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)
2	Darling Ingredients Inc.	5.250%	4/15/27	575	611
2.5	Diamond BC BV	5.625%	8/15/25	3,235	3,569
2	Endo Dac / Endo Finance LLC / Endo Finco Inc.	6.000%	2/1/25	2,395	1,617
2	Endo Finance LLC / Endo Ltd. / Endo Finco Inc.	6.000%	7/15/23	2,535	1,838
2.5	Grifols SA	1.625%	2/15/25	810	926
2.5	Grifols SA	2.250%	11/15/27	905	1,049
	HCA Inc.	6.250%	2/15/21	870	908
	HCA Inc.	7.500%	2/15/22	155	171
	HCA Inc.	5.875%	5/1/23	2,725	3,004
	HCA Inc.	5.375%	2/1/25	1,955	2,160
	HCA Inc.	7.690%	6/15/25	130	157
	HCA Inc.	5.875%	2/15/26	2,895	3,293
	HCA Inc.	5.625%	9/1/28	390	446
	HCA Inc.	5.875%	2/1/29	450	520
2	Hologic Inc.	4.625%	2/1/28	570	604
2	IQVIA Inc.	5.000%	5/15/27	1,993	2,108
2.5	IQVIA Inc.	2.250%	1/15/28	1,200	1,388
3.4	Lands' End, Inc. Bank Loan, 3M USD LIBOR + 3.250%	5.049%	3/12/21	2,257	2,210
2	MPH Acquisition Holdings LLC	7.125%	6/1/24	1,590	1,542
2	Performance Food Group Inc.	5.500%	10/15/27	2,100	2,237
2	Polaris Intermediate Corp.	8.500%	12/1/22	2,565	2,389
2	Post Holdings Inc.	5.500%	3/1/25	2,125	2,223
2	Post Holdings Inc.	5.000%	8/15/26	3,800	4,009
2	Post Holdings Inc.	5.750%	3/1/27	970	1,040
2	Post Holdings Inc.	5.625%	1/15/28	2,170	2,333
2	Quintiles IMS Inc.	5.000%	10/15/26	2,050	2,163
	Revlon Consumer Products Corp.	5.750%	2/15/21	570	486
	Revlon Consumer Products Corp.	6.250%	8/1/24	2,130	1,041
3.4	Revlon Consumer Products Corp. Bank Loan, 1M USD LIBOR + 3.500%	5.409%	9/7/23	176	134
3.4	Revlon Consumer Products Corp. Bank Loan, 1M USD LIBOR + 3.500%	5.409%	9/7/23	589	449
	Tenet Healthcare Corp.	4.625%	7/15/24	279	287
	Teva Pharmaceutical Finance Netherlands III BV	3.150%	10/1/26	2,720	2,264
	Teva Pharmaceutical Finance Netherlands III BV	6.750%	3/1/28	2,785	2,813
	Teva Pharmaceutical Finance Netherlands III BV	4.100%	10/1/46	300	216
2	TreeHouse Foods Inc.	6.000%	2/15/24	2,100	2,176
2	Valeant Pharmaceuticals International Inc.	9.000%	12/15/25	815	926
2	Valeant Pharmaceuticals International Inc.	8.500%	1/31/27	1,150	1,311
2	VRX Escrow Corp.	6.125%	4/15/25	5,700	5,885
2	West Street Merger Sub Inc.	6.375%	9/1/25	4,336	4,314
Energy (8.7%)					
	AmeriGas Finance LLC / AmeriGas Finance Corp.	5.625%	5/20/24	1,395	1,507
	AmeriGas Finance LLC / AmeriGas Finance Corp.	5.875%	8/20/26	1,765	1,948
	AmeriGas Partners LP / AmeriGas Finance Corp.	5.500%	5/20/25	620	670
	AmeriGas Partners LP / AmeriGas Finance Corp.	5.750%	5/20/27	1,745	1,920
2	Blue Racer Midstream LLC / Blue Racer Finance Corp.	6.125%	11/15/22	1,042	1,021
2	Blue Racer Midstream LLC / Blue Racer Finance Corp.	6.625%	7/15/26	775	705
	Cheniere Corpus Christi Holdings LLC	5.875%	3/31/25	95	107
	Cheniere Corpus Christi Holdings LLC	5.125%	6/30/27	1,233	1,366
2	Cheniere Energy Partners LP	4.500%	10/1/29	1,566	1,609

		Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)
	Chesapeake Energy Corp.	11.500%	1/1/25	2,791	2,638
2	DCP Midstream LLC	5.350%	3/15/20	335	337
2	DCP Midstream Operating LP	4.750%	9/30/21	672	690
	DCP Midstream Operating LP	4.950%	4/1/22	1,436	1,493
	DCP Midstream Operating LP	3.875%	3/15/23	801	819
	Ferrellgas LP / Ferrellgas Finance Corp.	6.500%	5/1/21	2,560	2,214
	Ferrellgas LP / Ferrellgas Finance Corp.	6.750%	1/15/22	474	403
	Ferrellgas LP / Ferrellgas Finance Corp.	6.750%	6/15/23	769	650
	Laredo Petroleum Inc.	5.625%	1/15/22	2,107	2,044
	Laredo Petroleum Inc.	6.250%	3/15/23	2,758	2,586
	Matador Resources Co.	5.875%	9/15/26	2,840	2,854
2	MEG Energy Corp.	6.375%	1/30/23	850	850
2	MEG Energy Corp.	7.000%	3/31/24	1,139	1,148
2	MEG Energy Corp.	6.500%	1/15/25	2,850	2,971
2	Noble Holding International Ltd.	7.875%	2/1/26	460	334
2	Parsley Energy LLC / Parsley Finance Corp.	5.375%	1/15/25	1,344	1,381
2	Parsley Energy LLC / Parsley Finance Corp.	5.250%	8/15/25	190	195
	QEP Resources Inc.	5.375%	10/1/22	1,270	1,275
	QEP Resources Inc.	5.250%	5/1/23	1,262	1,253
2	Rockies Express Pipeline LLC	7.500%	7/15/38	1,134	1,211
2	Rockies Express Pipeline LLC	6.875%	4/15/40	420	438
	SM Energy Co.	6.125%	11/15/22	935	944
	SM Energy Co.	5.000%	1/15/24	1,994	1,914
	SM Energy Co.	5.625%	6/1/25	1,651	1,568
	SM Energy Co.	6.750%	9/15/26	720	707
	SM Energy Co.	6.625%	1/15/27	500	491
	Sunoco LP / Sunoco Finance Corp.	4.875%	1/15/23	1,475	1,508
	Sunoco LP / Sunoco Finance Corp.	5.500%	2/15/26	1,589	1,653
	Sunoco LP / Sunoco Finance Corp.	6.000%	4/15/27	2,265	2,418
	Sunoco LP / Sunoco Finance Corp.	5.875%	3/15/28	555	591
2	Tallgrass Energy Partners LP / Tallgrass Energy Finance Corp.	4.750%	10/1/23	1,880	1,875
2	Tallgrass Energy Partners LP / Tallgrass Energy Finance Corp.	5.500%	9/15/24	210	211
2	Tallgrass Energy Partners LP / Tallgrass Energy Finance Corp.	5.500%	1/15/28	1,845	1,808
	Targa Resources Partners LP / Targa Resources Partners Finance Corp.	6.750%	3/15/24	300	311
2	Targa Resources Partners LP / Targa Resources Partners Finance Corp.	6.875%	1/15/29	1,200	1,329
1.2	Transocean Guardian Ltd.	5.875%	1/15/24	1,573	1,608
1.2	Transocean Phoenix 2 Ltd.	7.750%	10/15/24	714	757
1.2	Transocean Pontus Ltd.	6.125%	8/1/25	1,278	1,313
1.2	Transocean Proteus Ltd.	6.250%	12/1/24	837	863
2	Vine Oil & Gas LP / Vine Oil & Gas Finance Corp.	8.750%	4/15/23	1,915	938
	Whiting Petroleum Corp.	6.625%	1/15/26	3,281	2,231
	WPX Energy Inc.	5.250%	9/15/24	3,734	3,967
	WPX Energy Inc.	5.750%	6/1/26	370	395
Other Industrial (0.7%)					
2	Brand Energy & Infrastructure Services Inc.	8.500%	7/15/25	3,222	3,303
3.4	Core & Main LP Bank Loan, 3M USD LIBOR + 3.000%	4.441%	8/1/24	47	46
3.4	Core & Main LP Bank Loan, 3M USD LIBOR + 3.000%	4.441%	8/1/24	114	114
3.4	Core & Main LP Bank Loan, 3M USD LIBOR + 3.000%	4.664%	8/1/24	104	103
2	KAR Auction Services Inc.	5.125%	6/1/25	1,819	1,890
Technology (8.9%)					
	Alcatel-Lucent USA Inc.	6.500%	1/15/28	1,355	1,391
	Alcatel-Lucent USA Inc.	6.450%	3/15/29	2,612	2,772

High Yield Bond Portfolio

	Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)
CDK Global Inc.	5.875%	6/15/26	915	977
CDK Global Inc.	4.875%	6/1/27	585	618
² CDK Global Inc.	5.250%	5/15/29	775	827
CDW LLC / CDW Finance Corp.	5.500%	12/1/24	185	205
CDW LLC / CDW Finance Corp.	5.000%	9/1/25	910	951
CDW LLC / CDW Finance Corp.	4.250%	4/1/28	2,685	2,816
^{3,4} Dun and Bradstreet Corp. Bank Loan, 3M USD LIBOR + 5.000%	6.792%	2/8/26	3,360	3,382
² Entegris Inc.	4.625%	2/10/26	150	155
⁴ Equinix Inc.	2.875%	2/1/26	3,115	3,623
Equinix Inc.	5.375%	5/15/27	1,365	1,479
^{3,4} Grizzly Acquisitions Inc. Bank Loan, 3M USD LIBOR + 3.250%	5.349%	10/1/25	736	735
Infor US Inc.	6.500%	5/15/22	3,060	3,110
Iron Mountain Inc.	5.750%	8/15/24	972	982
² Iron Mountain Inc.	4.875%	9/15/27	595	612
² Iron Mountain Inc.	4.875%	9/15/29	2,177	2,210
² MSCI Inc.	5.250%	11/15/24	149	153
² MSCI Inc.	5.750%	8/15/25	1,915	2,008
² MSCI Inc.	4.750%	8/1/26	210	220
² MSCI Inc.	5.375%	5/15/27	690	745
² MSCI Inc.	4.000%	11/15/29	2,710	2,747
Nokia Oyj	6.625%	5/15/39	3,735	4,286
² Open Text Corp.	5.625%	1/15/23	1,070	1,087
² Open Text Corp.	5.875%	6/1/26	1,895	2,023
Pitney Bowes Inc.	4.625%	5/15/22	1,015	1,020
Pitney Bowes Inc.	5.200%	4/1/23	2,395	2,347
Pitney Bowes Inc.	4.625%	3/15/24	975	907
Qorvo Inc.	5.500%	7/15/26	2,044	2,172
² Qorvo Inc.	4.375%	10/15/29	2,260	2,367
² Sensata Technologies BV	4.875%	10/15/23	300	319
² Sensata Technologies BV	5.625%	11/1/24	575	638
² Sensata Technologies BV	5.000%	10/1/25	1,625	1,761
² Sensata Technologies UK Financing Co. plc	6.250%	2/15/26	1,520	1,642
^{3,4} SS&C Technologies Holdings Inc. Bank Loan, 3M USD LIBOR + 2.250%	4.049%	4/16/25	676	681
^{3,4} SS&C Technologies Holdings Inc. Bank Loan, 3M USD LIBOR + 2.250%	4.049%	4/16/25	826	832
^{3,4} SS&C Technologies Holdings Inc. Bank Loan, 3M USD LIBOR + 2.250%	4.049%	4/16/25	73	577
² SS&C Technologies Inc.	5.500%	9/30/27	3,575	3,816
Symantec Corp.	3.950%	6/15/22	345	351
² Symantec Corp.	5.000%	4/15/25	4,250	4,324
Western Digital Corp.	4.750%	2/15/26	2,519	2,626
Xerox Corp.	4.500%	5/15/21	720	736
Xerox Corp.	4.125%	3/15/23	750	778
Xerox Corp.	4.800%	3/1/35	542	488
Xerox Corp.	6.750%	12/15/39	1,600	1,688
Transportation (0.2%)				
Avis Budget Car Rental LLC / Avis Budget Finance Inc.	5.500%	4/1/23	602	611
² Avis Budget Car Rental LLC / Avis Budget Finance Inc.	6.375%	4/1/24	715	742
			603,474	
Utilities (1.4%)				
Electric (1.4%)				
AES Corp.	4.500%	3/15/23	1,835	1,881
AES Corp.	4.875%	5/15/23	516	525
AES Corp.	5.500%	4/15/25	150	155
AES Corp.	6.000%	5/15/26	30	32

	Coupon	Maturity Date	Face Amount (\$000)	Market Value* (\$000)
AES Corp.	5.125%	9/1/27	2,115	2,257
² NextEra Energy Operating Partners LP	4.250%	7/15/24	1,173	1,220
² NextEra Energy Operating Partners LP	4.250%	9/15/24	1,145	1,191
² NextEra Energy Operating Partners LP	3.875%	10/15/26	3,035	3,058
² NextEra Energy Operating Partners LP	4.500%	9/15/27	700	728
				11,047
Total Corporate Bonds (Cost \$684,752)				704,953
Sovereign Bonds (0.4%)				
² DAE Funding LLC	4.000%	8/1/20	130	131
² DAE Funding LLC	5.250%	11/15/21	705	731
² DAE Funding LLC	4.500%	8/1/22	1,264	1,283
² DAE Funding LLC	5.000%	8/1/24	1,020	1,069
Total Sovereign Bonds (Cost \$3,154)				3,214
Shares				
Common Stocks (0.1%)				
Utilities (0.1%)				
^{*,7} Homer City Generation LP (Cost \$1,287)			62,633	448
Temporary Cash Investment (8.1%)				
Repurchase Agreement (8.1%)				
Bank of America Securities, LLC (Dated 12/31/19, Repurchase Value \$63,606,000, collateralized by Federal National Mortgage Assn., 4.000%, 6/01/34, and Federal Home Loan Mortgage Corp., 3.500%–4.500%, 9/01/46–5/01/49, with a value of \$64,872,000)				
(Cost \$63,600)	1.570%	1/2/20	63,600	63,600
Total Investments (98.6%) (Cost \$752,793)				772,215
Amount (\$000)				
Other Assets and Liabilities (1.4%)				
Other Assets				
Investment in Vanguard				35
Receivables for Investment Securities Sold				272
Receivables for Accrued Income				10,235
Receivables for Capital Shares Issued				413
Other Assets ⁸				806
Total Other Assets				11,761
Liabilities				
Payables for Investment Securities Purchased				(19)
Payables to Investment Advisor				(115)
Payables for Capital Shares Redeemed				(316)
Payables to Vanguard				(493)
Variation Margin Payable—CC Swap Contracts				(1)
Unrealized Depreciation—Forward Currency Contracts				(127)
Total Liabilities				(1,071)
Net Assets (100%)				
Applicable to 95,578,799 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)				782,905
Net Asset Value Per Share				\$8.19

At December 31, 2019, net assets consisted of:

	Amount (\$000)
Paid-in Capital	733,724
Total Distributable Earnings (Loss)	49,181
Net Assets	782,905

• See Note A in Notes to Financial Statements.

* Non-income-producing security.

1 The average or expected maturity is shorter than the final maturity shown because of the possibility of interim principal payments and prepayments or the possibility of the issue being called.

2 Security exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be sold in transactions exempt from registration, normally to qualified institutional buyers. At December 31, 2019, the aggregate value of these securities was \$336,646,000, representing 43.0% of net assets.

3 Security is a senior, secured, high-yield floating-rate loan. These loans are debt obligations issued by public and private companies and are comparable to high-yield bonds from a ratings and leverage perspective. At December 31, 2019, the aggregate value of these securities was \$15,946,000, representing 2.0% of net assets.

4 Adjustable-rate security; rate shown is effective rate at period end. Certain adjustable-rate securities are not based on a published reference rate and spread but are determined by the issuer or agent based on current market conditions.

5 Face amount denominated in euro.

6 Face amount denominated in British pounds.

7 Security value determined using significant unobservable inputs.

8 Cash of \$527,000 has been segregated as initial margin for open cleared swap contracts.

CC—Centrally Cleared.

LIBOR—London Interbank Offered Rate.

Derivative Financial Instruments Outstanding as of Period End

Forward Currency Contracts

Counterparty	Contract Settlement Date	Contract Amount (000)		Unrealized Appreciation (\$000)	Unrealized (Depreciation) (\$000)
		Receive	Deliver		
Citibank, N.A.	1/31/20	USD 17,861	EUR 16,004	—	(126)
Bank of America, N.A.	1/31/20	USD 62	GBP 48	—	(1)
				—	(127)

EUR—euro.

GBP—British pound.

USD—U.S. dollar.

Centrally Cleared Credit Default Swaps

Reference Entity	Termination Date	Notional Amount (000)		Periodic Premium Received (Paid) ¹ (%)	Value (\$000)	Unrealized Appreciation (Depreciation) (\$000)
Credit Protection Sold						
CDX-NA-HY-S33-V1	12/20/24	USD	9,900	5.000	959	211

The notional amount represents the maximum potential amount the fund could be required to pay as a seller of credit protection if the reference entity was subject to a credit event.

¹ Periodic premium received/paid quarterly.

USD—U.S. dollar.

Statement of Operations

	Year Ended December 31, 2019
	(\$000)
Investment Income	
Income	
Interest	40,612
Total Income	40,612
Expenses	
Investment Advisory Fees—Note B	446
The Vanguard Group—Note C	
Management and Administrative	1,339
Marketing and Distribution	82
Custodian Fees	13
Auditing Fees	35
Shareholders' Reports	16
Trustees' Fees and Expenses	1
Total Expenses	1,932
Net Investment Income	38,680
Realized Net Gain (Loss)	
Investment Securities Sold	(1,299)
Swap Contracts	(11)
Forward Currency Contracts	843
Foreign Currencies	(7)
Realized Net Gain (Loss)	(474)
Change in Unrealized Appreciation (Depreciation)	
Investment Securities	68,687
Swap Contracts	597
Forward Currency Contracts	(151)
Foreign Currencies	4
Change in Unrealized Appreciation (Depreciation)	69,137
Net Increase (Decrease) in Net Assets Resulting from Operations	107,343

Statement of Changes in Net Assets

	Year Ended December 31,	
	2019	2018
	(\$000)	(\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	38,680	39,756
Realized Net Gain (Loss)	(474)	5,329
Change in Unrealized Appreciation (Depreciation)	69,137	(65,575)
Net Increase (Decrease) in Net Assets Resulting from Operations	107,343	(20,490)
Distributions		
Net Investment Income	(42,939)	(35,316)
Realized Capital Gain	—	—
Total Distributions	(42,939)	(35,316)
Capital Share Transactions		
Issued	152,281	118,985
Issued in Lieu of Cash Distributions	42,939	35,316
Redeemed	(180,636)	(146,831)
Net Increase (Decrease) from Capital Share Transactions	14,584	7,470
Total Increase (Decrease)	78,988	(48,336)
Net Assets		
Beginning of Period	703,917	752,253
End of Period	782,905	703,917

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

Financial Highlights

For a Share Outstanding Throughout Each Period	Year Ended December 31,				
	2019	2018	2017	2016	2015
Net Asset Value, Beginning of Period	\$7.53	\$8.13	\$7.99	\$7.59	\$8.14
Investment Operations					
Net Investment Income	.410 ¹	.420 ¹	.419 ¹	.397	.427
Net Realized and Unrealized Gain (Loss) on Investments	.731	(.636)	.119	.426	(.541)
Total from Investment Operations	1.141	(.216)	.538	.823	(.114)
Distributions					
Dividends from Net Investment Income	(.481)	(.384)	(.398)	(.423)	(.423)
Distributions from Realized Capital Gains	—	—	—	—	(.013)
Total Distributions	(.481)	(.384)	(.398)	(.423)	(.436)
Net Asset Value, End of Period	\$8.19	\$7.53	\$8.13	\$7.99	\$7.59
Total Return	15.67%	-2.73%	7.00%	11.35%	-1.58%
Ratios/Supplemental Data					
Net Assets, End of Period (Millions)	\$783	\$704	\$752	\$622	\$521
Ratio of Total Expenses to Average Net Assets	0.26%	0.26%	0.28%	0.28%	0.28%
Ratio of Net Investment Income to Average Net Assets	5.21%	5.39%	5.22%	5.44%	5.41%
Portfolio Turnover Rate	27%	23%	28%	27%	38%

¹ Calculated based on average shares outstanding.

Notes to Financial Statements

The High Yield Bond Portfolio, a portfolio of Vanguard Variable Insurance Funds, is registered under the Investment Company Act of 1940 as an open-end investment company. The portfolio's shares are only available for purchase by separate accounts of insurance companies as investments for variable annuity plans, variable life insurance contracts, or other variable benefit insurance contracts. Certain of the portfolio's investments are in corporate debt instruments; the issuers' abilities to meet their obligations may be affected by economic developments in their respective industries.

A. The following significant accounting policies conform to generally accepted accounting principles for U.S. investment companies. The portfolio 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. Bonds and temporary cash investments are valued using the latest bid prices or using valuations based on a matrix system (which considers such factors as security prices, yields, maturities, and ratings), both as furnished by independent pricing services. 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 portfolio's pricing time but after the close of the securities' primary markets, are valued by methods deemed by the board of trustees to represent fair value.

2. **Foreign Currency:** Securities and other assets and liabilities denominated in foreign currencies are translated into U.S. dollars using exchange rates obtained from an independent third party as of the portfolio's pricing time on the valuation date. Realized gains (losses) and unrealized appreciation (depreciation) on investment securities include the effects of changes in exchange rates since the securities were purchased, combined with the effects of changes in security prices. Fluctuations in the value of other assets and liabilities resulting from changes in exchange rates are recorded as unrealized foreign currency gains (losses) until the assets or liabilities are settled in cash, at which time they are recorded as realized foreign currency gains (losses).

3. Forward Currency Contracts: The portfolio enters into forward currency contracts to protect the value of securities and related receivables and payables against changes in future foreign exchange rates. The portfolio's risks in using these contracts include movement in the values of the foreign currencies relative to the U.S. dollar and the ability of the counterparties to fulfill their obligations under the contracts. The portfolio mitigates its counterparty risk by entering into forward currency contracts only with a diverse group of prequalified counterparties, monitoring their financial strength, entering into master netting arrangements with its counterparties, and requiring its counterparties to transfer collateral as security for their performance. In the absence of a default, the collateral pledged or received by the portfolio cannot be repledged, resold, or rehypothecated. The master netting arrangements provide that, in the event of a counterparty's default (including bankruptcy), the portfolio may terminate the forward currency contracts, determine the net amount owed by either party in accordance with its master netting arrangements, and sell or retain any collateral held up to the net amount owed to the portfolio under the master netting arrangements. The forward currency contracts contain provisions whereby a counterparty may terminate open contracts if the portfolio's net assets decline below a certain level, triggering a payment by the portfolio if the portfolio is in a net liability position at the time of the termination. The payment amount would be reduced by any collateral the portfolio has pledged. Any assets pledged as collateral for open contracts are noted in the Statement of Net Assets. The value of collateral received or pledged is compared daily to the value of the forward currency contracts exposure with each counterparty, and any difference, if in excess of a specified minimum transfer amount, is adjusted and settled within two business days.

Forward currency contracts are valued at their quoted daily prices obtained from an independent third party, adjusted for currency risk based on the expiration date of each contract. The notional amounts of the contracts are not recorded in the Statement of Net Assets. Fluctuations in the value of the contracts are recorded in the Statement of Net Assets as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until the contracts are closed, when they are recorded as realized forward currency contract gains (losses).

During the year ended December 31, 2019, the portfolio's average investment in forward currency contracts represented 2% of net assets, based on the average of notional amounts at each quarter-end during the period.

4. Swap Contracts: The portfolio invests in credit default swaps to adjust the overall credit risk of the portfolio or to actively overweight or underweight credit risk to a specific issuer or group of issuers. The portfolio may sell credit protection through credit default swaps to simulate investments in long positions that are either unavailable or considered to be less attractively priced in the bond market. The portfolio may purchase credit protection through credit default swaps to reduce credit exposure to a given issuer or issuers. Under the terms of the swaps, an up-front payment may be exchanged between the seller and buyer. In addition, the seller of the credit protection receives a periodic payment of premium from the buyer that is a fixed percentage applied to a notional amount. If, for example, the reference entity is subject to a credit event (such as bankruptcy, failure to pay, or obligation acceleration) during the term of the swap, the seller agrees to either physically settle or cash settle the swap contract. If the swap is physically settled, the seller agrees to pay the buyer an amount equal to the notional amount and take delivery of a debt instrument of the reference issuer with a par amount equal to such notional amount. If the swap is cash settled, the seller agrees to pay the buyer the difference between the notional amount and the final price for the relevant debt instrument, as determined either in a market auction or pursuant to a pre-agreed-upon valuation procedure.

The notional amounts of swap contracts are not recorded in the Statement of Net Assets. Swaps are valued daily based on market quotations received from independent pricing services or recognized dealers and the change in value is recorded in the Statement of Net Assets as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until the seller of credit protection is required to take delivery (or, in a cash settled swap, pay the settlement amount determined) upon occurrence of a credit event, periodic payments are made, or the swap terminates, at which time realized gain (loss) is recorded. The net premium to be received or paid by the portfolio under swap contracts is accrued daily and recorded as realized gain (loss) over the life of the contract.

The primary risk associated with selling credit protection is that, upon the occurrence of a defined credit event, the market value of the debt instrument received by the portfolio (or, in a cash settled swap, the debt instruments used to determine the settlement payment by the portfolio) will be significantly less than the amount paid by the portfolio and, in a physically settled swap, the portfolio may receive an illiquid debt instrument. A risk associated with all types of swaps is the possibility that a counterparty may default on its obligation to pay net amounts due to the portfolio. The portfolio's maximum amount subject to counterparty risk is the unrealized appreciation on the swap contract. The portfolio mitigates

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

The portfolio enters into centrally cleared credit default swaps to achieve the same objectives specified with respect to the equivalent over-the-counter swaps but with less counterparty risk because a regulated clearinghouse is the counterparty instead of the clearing broker or executing broker. The clearinghouse imposes initial margin requirements to secure the portfolio's performance, and requires daily settlement of variation margin representing changes in the market value of each contract. To further mitigate counterparty risk, the portfolio trades with a diverse group of prequalified executing brokers; monitors the financial strength of its clearing brokers, executing brokers, and clearinghouse; and has entered into agreements with its clearing brokers and executing brokers.

During the year ended December 31, 2019, the portfolio's average amounts of investments in credit protection sold and credit protection purchased represented 1% and 0% of net assets, respectively, based on the average of notional amounts at each quarter-end during the period.

5. Repurchase Agreements: The portfolio enters into repurchase agreements with institutional counterparties. Securities pledged as collateral to the portfolio under repurchase agreements are held by a custodian bank until the agreements mature, and in the absence of a default, such collateral cannot be repledged, resold, or rehypothecated. Each agreement requires that the market value of the collateral be sufficient to cover payments of interest and principal. The portfolio further mitigates its counterparty risk by entering into repurchase agreements only with a diverse group of prequalified counterparties, monitoring their financial strength, and entering into master repurchase agreements with its counterparties. The master repurchase agreements provide that, in the event of a counterparty's default (including bankruptcy), the portfolio may terminate any repurchase agreements with that counterparty, determine the net amount owed, and sell or retain the collateral up to the net amount owed to the portfolio. Such action may be subject to legal proceedings, which may delay or limit the disposition of collateral.

6. Federal Income Taxes: The portfolio intends to continue to qualify as a regulated investment company and distribute all of its taxable income. Management has analyzed the portfolio's tax positions taken for all open federal income tax years (December 31, 2016–2019), and has concluded that no provision for federal income tax is required in the portfolio's financial statements.

7. Distributions: Distributions to shareholders are recorded on the ex-dividend date. Distributions are determined on a tax basis and may differ from net investment income and realized capital gains for financial reporting purposes.

8. Credit Facility: The portfolio and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement that may be renewed annually; each fund is individually liable for its borrowings, if any, under the credit facility. Borrowings may be utilized for temporary and emergency purposes, and are subject to the portfolio's regulatory and contractual borrowing restrictions. The participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn amount of the facility; these fees are allocated to the funds based on a method approved by the portfolio's board of trustees and included in Management and Administrative expenses on the portfolio's Statement of Operations. Any borrowings under this facility bear interest at a rate based upon the higher of the one-month London Interbank Offered Rate, federal funds effective rate, or overnight bank funding rate plus an agreed-upon spread.

The portfolio had no borrowings outstanding at December 31, 2019, or at any time during the period then ended.

9. Other: Interest income is accrued daily. Premiums and discounts on debt securities are amortized and accreted, respectively, to interest income over the lives of the respective securities, except for premiums on certain callable debt securities that are amortized to the earliest call date. Security transactions are accounted for on the date securities are bought or sold. Costs used to determine realized gains (losses) on the sale of investment securities are those of the specific securities sold.

B. Wellington Management Company LLP provides investment advisory services to the portfolio for a fee calculated at an annual percentage rate of average net assets. For the year ended December 31, 2019, the investment advisory fee represented an effective annual rate of 0.06% of the portfolio's average net assets.

C. In accordance with the terms of a Funds' Service Agreement (the "FSA") between Vanguard and the portfolio, Vanguard furnishes to the portfolio 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 portfolio based on methods and guidelines approved by the board of trustees. Vanguard does not require reimbursement in the current period for certain costs of operations (such as deferred compensation/benefits and risk/insurance costs); the portfolio's liability for these costs of operations is included in Payables to Vanguard on the Statement of Net Assets. All other costs of operations payable to Vanguard are generally settled twice a month.

Upon the request of Vanguard, the portfolio may invest up to 0.40% of its net assets as capital in Vanguard. At December 31, 2019, the portfolio had contributed to Vanguard capital in the amount of \$35,000, representing less than 0.01% of the portfolio's net assets and 0.01% of Vanguard's capital received pursuant to the FSA. The portfolio's trustees and officers are also directors and employees, respectively, of Vanguard.

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

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

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

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

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

Investments	Level 1 (\$000)	Level 2 (\$000)	Level 3 (\$000)
Corporate Bonds	—	704,953	—
Sovereign Bonds	—	3,214	—
Common Stocks	—	—	448
Temporary Cash Investments	—	63,600	—
Swap Contracts—Liabilities ¹	(1)	—	—
Forward Currency Contracts—Liabilities	—	(127)	—
Total	(1)	771,640	448

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

E. At December 31, 2019, the fair values of derivatives were reflected in the Statement of Net Assets as follows:

Statement of Net Assets Caption	Foreign Exchange Contracts (\$000)	Credit Contracts (\$000)	Total (\$000)
Variation Margin Payable—Swap Contracts	—	(1)	(1)
Unrealized Depreciation—Forward Currency Contracts	(127)	—	(127)
Total Liabilities	(127)	(1)	(128)

Realized Net Gain (Loss) on Derivatives	Foreign Exchange Contracts (\$000)	Credit Contracts (\$000)	Total (\$000)
Swap Contracts	—	(11)	(11)
Forward Currency Contracts	843	—	843
Realized Net Gain (Loss) on Derivatives	843	(11)	832

Change in Unrealized Appreciation (Depreciation) on Derivatives	Foreign Exchange Contracts (\$000)	Credit Contracts (\$000)	Total (\$000)
Swap Contracts	—	597	597
Forward Currency Contracts	(151)	—	(151)
Change in Unrealized Appreciation (Depreciation) on Derivatives	(151)	597	446

F. 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 foreign currency transactions and swap agreements were reclassified between the individual components of total distributable earnings (loss).

	Amount (\$000)
Paid-in Capital	—
Total Distributable Earnings (Loss)	—

Temporary differences between book-basis and tax-basis components of total distributable earnings (loss) arise when certain items of income, gain, or loss are recognized in different periods for financial statement and tax purposes; these differences will reverse at some time in the future. The differences are primarily related to the tax deferral of losses on wash sales; the realization of unrealized gains or losses on forward currency contracts; the amortization of premiums on certain callable debt instruments; and the tax recognition of gain or loss from foreign currency hedges. 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	37,555
Undistributed Long-Term Gains	—
Capital Loss Carryforwards (Non-expiring)	(7,692)
Net Unrealized Gains (Losses)	19,730

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

	Amount (\$000)
Tax Cost	752,696
Gross Unrealized Appreciation	30,996
Gross Unrealized Depreciation	(11,266)
Net Unrealized Appreciation (Depreciation)	19,730

G. During the year ended December 31, 2019, the portfolio purchased \$181,205,000 of investment securities and sold \$193,984,000 of investment securities, other than U.S. government securities and temporary cash investments. There were no purchases or sales of U.S. government securities during the period.

H. Capital shares issued and redeemed were:

	Year Ended December 31,	
	2019 Shares (000)	2018 Shares (000)
Issued	19,313	15,135
Issued in Lieu of Cash Distributions	5,672	4,616
Redeemed	(22,931)	(18,772)
Net Increase (Decrease) in Shares Outstanding	2,054	979

At December 31, 2019, one shareholder, an insurance company separate account whose holdings in the portfolio represent the indirect investment of Vanguard Variable Annuity contract holders, was the record or beneficial owner of 48% of the portfolio's net assets. If this shareholder were to redeem its investment in the portfolio, the redemption might result in an increase in the portfolio's expense ratio, cause the portfolio 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 December 31, 2019, that would require recognition or disclosure in these financial statements.

Report of Independent Registered Public Accounting Firm

To the Board of Trustees of Vanguard Variable Insurance Funds and Shareholders of High Yield Bond Portfolio

Opinion on the Financial Statements

We have audited the accompanying statement of net assets of High Yield Bond Portfolio (one of the portfolios constituting Vanguard Variable Insurance Funds, referred to hereafter as the "Portfolio") as of December 31, 2019, the related statement of operations for the year ended December 31, 2019, the statement of changes in net assets for each of the two years in the period ended December 31, 2019, including the related notes, and the financial highlights for each of the five years in the period ended December 31, 2019 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Portfolio as of December 31, 2019, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period ended December 31, 2019 and the financial highlights for each of the five years in the period ended December 31, 2019 in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

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

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

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

/s/PricewaterhouseCoopers LLP
Philadelphia, Pennsylvania
February 18, 2020

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

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The People Who Govern Your Fund

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

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

Information for each trustee and executive officer of the fund appears below. That information, as well as the Vanguard fund count, is as of the date on the cover of this fund report. The mailing address of the trustees and officers is P.O. Box 876, Valley Forge, PA 19482. More information about the trustees is in the *Statement of Additional Information*, which can be obtained, without charge, by contacting Vanguard at 800-662-7447, or online at vanguard.com.

Interested Trustee¹

Mortimer J. Buckley

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

Independent Trustees

Emerson U. Fullwood

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

Amy Gutmann

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

of Arts and Sciences, and at the Graduate School of Education, University of Pennsylvania. Trustee of the National Constitution Center.

F. Joseph Loughrey

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

Mark Loughridge

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

Scott C. Malpass

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

Deanna Mulligan

Born in 1963. Trustee since January 2018. Principal occupation(s) during the past five years and other experience: president (2010–present) and chief executive officer (2011–present) of The Guardian Life Insurance Company of America. Chief operating officer (2010–2011) and executive vice president (2008–2010) of Individual Life and Disability of

The Guardian Life Insurance Company of America. Member of the board of The Guardian Life Insurance Company of America, the American Council of Life Insurers, the Partnership for New York City (business leadership), and the Committee Encouraging Corporate Philanthropy. Trustee of the Economic Club of New York and the Bruce Museum (arts and science). Member of the Advisory Council for the Stanford Graduate School of Business.

André F. Perold

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

Sarah Bloom Raskin

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

Peter F. Volanakis

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

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.

Executive Officers

John Bendl

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

Glenn Booraem

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

Christine M. Buchanan

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

David Cermak

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

Thomas J. Higgins

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

Peter Mahoney

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

Anne E. Robinson

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

Michael Rollings

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

John E. Schadl

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

Vanguard Senior Management Team

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Mortimer J. Buckley
Gregory Davis
John James
Martha G. King
John T. Marcante

Chris D. McIsaac
James M. Norris
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