

A world of investing.®



Putnam Variable Trust

Putnam VT Sustainable Leaders Fund

Annual report

12 | 31 | 22

Message from the Trustees

February 9, 2023

Dear Shareholder:

As an investor, you might be happy to see 2022 in the rearview mirror. High inflation and aggressive interest-rate increases from the U.S. Federal Reserve contributed to market volatility and negative returns for stocks and bonds. Fortunately, toward the end of the year, we saw both inflation levels and Fed actions begin to moderate somewhat.

Although we still face high inflation and uncertainty on how much the economy will slow because of higher interest rates, we believe financial market performance might be better in 2023 as compared with 2022. Historically, stocks and bonds have recovered from bear markets like the one we are experiencing. Be assured that our investment teams are actively researching securities with attractive potential and working to keep portfolio risks in check.

Thank you for investing with Putnam.

Respectfully yours,



Robert L. Reynolds
President and Chief Executive Officer
Putnam Investments



Kenneth R. Leibler
Chair, Board of Trustees

Performance summary (as of 12/31/22)

Investment objective

Long-term capital appreciation

Net asset value December 31, 2022

Class IA: \$34.07

Class IB: \$32.66

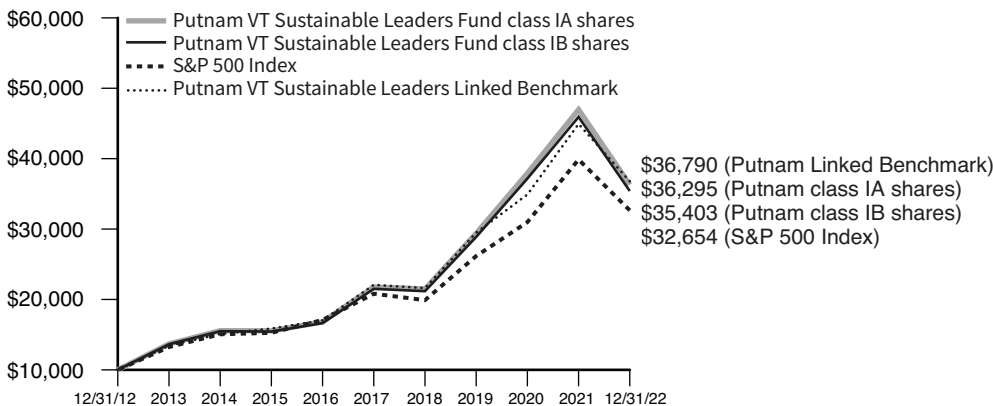
Annualized total return at net asset value (as of 12/31/22)

	Class IA shares (5/2/94)	Class IB shares (4/30/98)	S&P 500 Index	Putnam VT Sustainable Leaders Linked Benchmark
1 year	-22.72%	-22.91%	-18.11%	-18.11%
5 years	10.76	10.48	9.42	10.76
10 years	13.76	13.48	12.56	13.91
Life of fund	9.03	8.78	9.82	9.70

For a portion of the periods, the fund had expense limitations, without which returns would have been lower.

Before April 30, 2018, the fund was managed with a materially different investment strategy and may have achieved materially different performance results under its current investment strategy from that shown for periods before this date.

Cumulative total returns of a \$10,000 investment in class IA and class IB shares at net asset value — since 12/31/12



The S&P 500® Index is an unmanaged index of common stock performance.

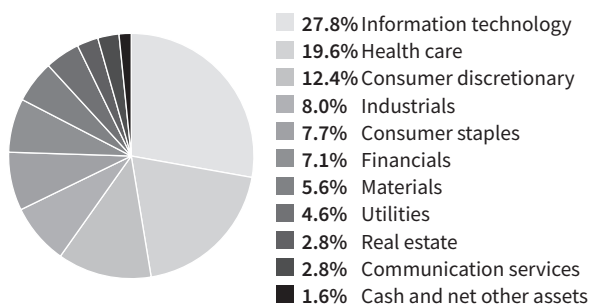
The Putnam VT Sustainable Leaders Linked Benchmark represents the performance of the Russell 3000 Growth Index through August 31, 2019, and the performance of the S&P 500 Index thereafter.

The Russell 3000® Growth Index is an unmanaged index of those companies in the broad-market Russell 3000 Index chosen for their growth orientation.

Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. Russell® is a trademark of Frank Russell Company.

Data represent past performance. Past performance does not guarantee future results. More recent returns may be less or more than those shown. Investment return and principal value will fluctuate, and you may have a gain or a loss when you sell your shares. Performance information does not reflect any deduction for taxes a shareholder may owe on fund distributions or on the redemption of fund shares. All total return figures are at net asset value and exclude contract charges and expenses, which are added to the variable annuity contracts to determine total return at unit value. Had these charges and expenses been reflected, performance would have been lower. Performance of class IB shares before their inception is derived from the historical performance of class IA shares, adjusted to reflect the higher operating expenses applicable to such shares. For more recent performance, contact your variable annuity provider who can provide you with performance that reflects the charges and expenses at your contract level.

Portfolio composition



Allocations are shown as a percentage of the fund's net assets. Cash and net other assets, if any, represent the market value weights of cash, derivatives, short-term securities, and other unclassified assets in the portfolio. Summary information may differ from the portfolio schedule included in the financial statements due to the inclusion of derivative securities, any interest accruals, the exclusion of as-of-trades, if any, the use of different classifications of securities for presentation purposes, and rounding. Holdings and allocations may vary over time.

Report from your fund's managers

How was the investing environment during the 12-month reporting period ended December 31, 2022?

Stock markets had a very challenging 2022, with all three major U.S. indexes logging their biggest declines since 2008. Conditions were particularly difficult for growth stocks and the technology sector. Throughout the year, financial markets were challenged by multiple, converging risks in the macroeconomy. High inflation, rising interest rates, and the Russia-Ukraine War contributed to a risk-averse investing environment. Combating inflation remained a top priority of the U.S. Federal Reserve as inflation reached 40-year highs. Toward the close of 2022, stocks were lifted by some positive earnings reports as well as data that showed the pace of inflation was slowing. However, concerns about a possible recession persisted.

How did Putnam VT Sustainable Leaders Fund perform in this environment?

For the 12-month reporting period, the fund's IA shares delivered a return of -22.72%, underperforming the S&P 500 Index benchmark, which returned -18.11% over the same period.

What were some holdings that helped fund performance relative to the benchmark during the period?

Among the top contributors was Constellation Energy, a utility company that is the largest producer of carbon-free and low-emissions nuclear energy in the U.S. The company is aligned with our Thriving Planet® theme. It is a leading supplier of energy products and services aimed at helping customers manage their energy use and become more energy efficient. Constellation has its own greenhouse gas reduction goals as well as ambitious plans to use its power generation for "clean energy centers," which have the potential to provide customers with very low, or zero, emission power.

Eli Lilly was another key contributor. The business continued to grow its revenues and earnings, driven primarily by Covid-19 antibody sales and the company's industry-leading diabetes treatment franchise. The company is aligned with our Thriving People® theme. It makes drugs that address important needs for patients, such as insulin for diabetes, that often are not directly correlated to economic cycles. The company also reported strong data on its growing obesity treatment franchise. It has also made promising strides toward treatments for Alzheimer's disease. We believe Lilly's leadership in both these areas has the potential to contribute meaningfully to future earnings.

Could you discuss some stocks that detracted from the fund's performance during the period?

One detractor was Shopify, a Canada-based multinational e-commerce company. Investors grew concerned about Shopify's long-term growth potential as demand, which surged during the Covid-19 pandemic, began to slow. The stock was also hurt as investor preferences shifted. As interest rates moved up and Shopify continued to invest aggressively in its future growth, investors moved away from rapidly growing, less profitable companies like Shopify. At the close of the period, Shopify was no longer in the portfolio.

Software company Adobe was also a detractor. Adobe is a leader in its core creative market and in digital marketing software. Like many other software companies during the period, Adobe reported decelerating revenue growth and a disappointing outlook. However, we believe Adobe will continue to lead in its core markets, enabling critical creativity and design capabilities for its customers.

As the fund begins a new fiscal year, what is your outlook?

We believe that continued stock market volatility is a possibility, and we remain attuned to macroeconomic issues that may affect financial markets. While we take the macroeconomic backdrop into consideration, as long-term investors, we are careful to avoid getting caught up in short-term thinking and overreacting to economic news. In many cases, we believe volatility can be beneficial, as it allows us to reevaluate companies at more attractive prices.

We continue to believe that the key driver of long-term fund performance should be our stock selection decisions. And, for companies in the portfolio, certain environmental, social, and governance factors are relevant and material to their long-term business fundamentals. We remain excited about the number of businesses that offer compelling sustainability characteristics, strong fundamentals, and reasonable valuations.

The views expressed in this report are exclusively those of Putnam Management and are subject to change. They are not meant as investment advice. Please note that the holdings discussed in this report may not have been held by the fund for the entire period. Portfolio composition is subject to review in accordance with the fund's investment strategy and may vary in the future. Current and future portfolio holdings are subject to risk.

Consider these risks before investing: The value of investments in the fund's portfolio may fall or fail to rise over extended periods of time for a variety of reasons, including general economic, political, or financial market conditions; investor sentiment and market perceptions; government actions; geopolitical events or changes; and factors related to a specific issuer, geography, industry, or sector. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings.

Growth stocks may be more susceptible than non-growth stocks to earnings disappointments, and the market may not favor growth-style investing. Investments in small and midsize companies increase the risk of greater price fluctuations. International investing involves currency, economic, and political risks. Emerging market securities have illiquidity and volatility risks.

Investing with a focus on companies that exhibit a commitment to sustainable business practices may result in the fund investing in certain types of companies, industries, or sectors that underperform the market as a whole. From time to time, the fund may invest a significant portion of its assets in companies in one or more related industries or sectors, which would make the fund more vulnerable to adverse developments affecting those industries or sectors. The technology industries may be significantly affected by technological obsolescence, short product cycles, falling prices and profits,

competitive pressures, and general market conditions. In evaluating an investment opportunity, we may make investment decisions based on information and data that is incomplete or inaccurate. In addition, a company's business practices, products, or services may change over time. As a result of these possibilities, among others, the fund may temporarily hold securities that are inconsistent with the fund's sustainable investment criteria.

Our investment techniques, analyses, and judgments may not produce the outcome we intend. The investments we select for the fund may not perform as well as other securities that we do not select for the fund. We, or the fund's other service providers, may experience disruptions or operating errors that could have a negative effect on the fund. You can lose money by investing in the fund.

Your fund's managers



Portfolio Manager **Katherine Collins, CFA, MTS**, is Head of Sustainable Investing. She joined Putnam in 2017 and has been in the investment industry since 1990.



Portfolio Manager **Stephanie Dobson** joined Putnam in 2017 and has been in the investment industry since 2011.

Your fund's managers also manage other accounts advised by Putnam Management or an affiliate, including retail mutual fund counterparts to the funds in Putnam Variable Trust.

Understanding your fund's expenses

As an investor in a variable annuity product that invests in a registered investment company, you pay ongoing expenses, such as management fees, distribution fees (12b-1 fees), and other expenses. Using the following information, you can estimate how these expenses affect your investment and compare them with the expenses of other funds. You may also pay one-time transaction expenses, which are not shown in this section and would result in higher total expenses. Charges and expenses at the insurance company separate account level are not reflected. For more information, see your fund's prospectus or talk to your financial representative.

Review your fund's expenses

The two left-hand columns of the Expenses per \$1,000 table show the expenses you would have paid on a \$1,000 investment in your fund from 7/1/22 to 12/31/22. They also show how much a \$1,000 investment would be worth at the close of the period, *assuming actual returns and expenses*. To estimate the ongoing expenses you paid over the period, divide your account value by \$1,000, then multiply the result by the number in the first line for the class of shares you own.

Compare your fund's expenses with those of other funds

The two right-hand columns of the Expenses per \$1,000 table show your fund's expenses based on a \$1,000 investment, *assuming a hypothetical 5% annualized return*. You can use this information to compare the ongoing expenses (but not transaction expenses or total costs) of investing in the fund with those of other funds. All shareholder reports of mutual funds and funds serving as variable annuity vehicles will provide this information to help you make this comparison. Please note that you cannot use this information to estimate your actual ending account balance and expenses paid during the period.

Expense ratios

	Class IA	Class IB
Total annual operating expenses for the fiscal year ended 12/31/21	0.64%	0.89%
Annualized expense ratio for the six-month period ended 12/31/22*	0.63%	0.88%

Fiscal year expense information in this table is taken from the most recent prospectus, is subject to change, and may differ from that shown for the annualized expense ratio and in the financial highlights of this report.

Expenses are shown as a percentage of average net assets.

*Expense ratios for each class are for the fund's most recent fiscal half year. As a result of this, ratios may differ from expense ratios based on one-year data in the financial highlights.

Expenses per \$1,000

	Expenses and value for a \$1,000 investment, assuming actual returns for the 6 months ended 12/31/22		Expenses and value for a \$1,000 investment, assuming a hypothetical 5% annualized return for the 6 months ended 12/31/22	
	Class IA	Class IB	Class IA	Class IB
Expenses paid per \$1,000*†	\$3.24	\$4.52	\$3.21	\$4.48
Ending value (after expenses)	\$1,038.70	\$1,037.50	\$1,022.03	\$1,020.77

*Expenses for each share class are calculated using the fund's annualized expense ratio for each class, which represents the ongoing expenses as a percentage of average net assets for the six months ended 12/31/22. The expense ratio may differ for each share class.

†Expenses based on actual returns are calculated by multiplying the expense ratio by the average account value for the period; then multiplying the result by the number of days in the period (184); and then dividing that result by the number of days in the year (365). Expenses based on a hypothetical 5% return are calculated by multiplying the expense ratio by the average account value for the six-month period; then multiplying the result by the number of days in the six-month period (184); and then dividing that result by the number of days in the year (365).

Report of Independent Registered Public Accounting Firm

To the Board of Trustees of Putnam Variable Trust and Shareholders of
Putnam VT Sustainable Leaders Fund:

Opinion on the Financial Statements

We have audited the accompanying statement of assets and liabilities, including the fund's portfolio, of Putnam VT Sustainable Leaders Fund (one of the funds constituting Putnam Variable Trust, referred to hereafter as the "Fund") as of December 31, 2022, the related statement of operations for the year ended December 31, 2022, the statement of changes in net assets for each of the two years in the period ended December 31, 2022, including the related notes, and the financial highlights for each of the five years in the period ended December 31, 2022 (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Fund as of December 31, 2022, 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, 2022 and the financial highlights for each of the five years in the period ended December 31, 2022 in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

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

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

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. Our procedures included confirmation of securities owned as of December 31, 2022 by correspondence with the custodian, transfer agents and brokers; when replies were not received from brokers and transfer agents, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

PricewaterhouseCoopers LLP
Boston, Massachusetts
February 9, 2023

We have served as the auditor of one or more investment companies in the Putnam Investments family of funds since at least 1957. We have not been able to determine the specific year we began serving as auditor.

The fund's portfolio 12/31/22

COMMON STOCKS (98.4%)*	Shares	Value
Automobiles (1.0%)		
General Motors Co.	216,900	\$7,296,516
		7,296,516
Banks (3.1%)		
Bank of America Corp.	514,104	17,027,124
First Republic Bank/CA	49,042	5,977,729
		23,004,853
Beverages (2.1%)		
Heineken NV (Netherlands)	167,391	15,746,656
		15,746,656
Biotechnology (3.6%)		
Amgen, Inc.	65,700	17,255,448
Regeneron Pharmaceuticals, Inc. †	13,300	9,595,817
		26,851,265
Capital markets (4.0%)		
Charles Schwab Corp. (The)	169,200	14,087,592
KKR & Co., Inc.	184,300	8,555,206
TPG, Inc.	241,958	6,733,691
		29,376,489
Chemicals (5.6%)		
Eastman Chemical Co.	114,200	9,300,448
Ginkgo Bioworks Holdings, Inc. †	904,307	1,528,279
Koninklijke DSM NV (Netherlands)	54,876	6,714,209
Linde PLC	47,700	15,558,786
Novozymes A/S Class B (Denmark)	157,249	7,965,671
		41,067,393
Electric utilities (3.4%)		
Constellation Energy Corp.	169,300	14,595,353
NextEra Energy, Inc.	123,200	10,299,520
		24,894,873
Entertainment (1.5%)		
Walt Disney Co. (The) †	128,000	11,120,640
		11,120,640
Equity real estate investment trusts (REITs) (2.8%)		
American Tower Corp. ^R	59,200	12,542,112
Boston Properties, Inc. ^R	119,300	8,062,294
		20,604,406
Food and staples retailing (3.0%)		
Walmart, Inc.	156,500	22,190,135
		22,190,135
Food products (1.5%)		
McCormick & Co., Inc. (non-voting shares)	129,900	10,767,411
		10,767,411
Health-care equipment and supplies (3.6%)		
Boston Scientific Corp. †	366,600	16,962,582
Cooper Cos., Inc. (The)	28,200	9,324,894
		26,287,476
Health-care providers and services (3.0%)		
UnitedHealth Group, Inc.	42,200	22,373,596
		22,373,596
Hotels, restaurants, and leisure (4.9%)		
Chipotle Mexican Grill, Inc. †	7,500	10,406,175
Hilton Worldwide Holdings, Inc.	119,799	15,137,802
Starbucks Corp.	103,700	10,287,040
		35,831,017
Independent power and renewable electricity producers (1.2%)		
AES Corp. (The)	321,400	9,243,464
		9,243,464
Internet and direct marketing retail (2.5%)		
Amazon.com, Inc. †	221,400	18,597,600
		18,597,600

COMMON STOCKS (98.4%)* cont.	Shares	Value
IT Services (2.9%)		
PayPal Holdings, Inc. †	70,200	\$4,999,644
Visa, Inc. Class A	78,300	16,267,608
		21,267,252
Life sciences tools and services (3.8%)		
Danaher Corp.	55,400	14,704,268
Thermo Fisher Scientific, Inc.	24,300	13,381,767
		28,086,035
Machinery (6.4%)		
Deere & Co.	24,600	10,547,496
Fortive Corp.	219,300	14,090,025
Ingersoll Rand, Inc.	278,500	14,551,625
Otis Worldwide Corp.	102,500	8,026,775
		47,215,921
Multiline retail (1.7%)		
Dollar General Corp.	50,600	12,460,250
		12,460,250
Personal products (1.1%)		
Unilever PLC (United Kingdom)	167,254	8,391,462
		8,391,462
Pharmaceuticals (5.6%)		
Eli Lilly and Co.	51,300	18,767,592
Merck & Co., Inc.	130,200	14,445,690
Sanofi (France)	85,523	8,224,677
		41,437,959
Road and rail (1.6%)		
Union Pacific Corp.	58,800	12,175,716
		12,175,716
Semiconductors and semiconductor equipment (5.2%)		
Advanced Micro Devices, Inc. †	108,400	7,021,068
Applied Materials, Inc.	96,200	9,367,956
ASML Holding NV (NY Reg Shares) (Netherlands)	17,600	9,616,640
NVIDIA Corp.	82,400	12,041,936
		38,047,600
Software (13.7%)		
Adobe, Inc. †	40,300	13,562,159
Intuit, Inc.	20,500	7,979,010
Microsoft Corp.	223,000	53,479,860
Roper Technologies, Inc.	35,500	15,339,195
salesforce.com, Inc. †	82,900	10,991,711
		101,351,935
Specialty retail (1.7%)		
Home Depot, Inc. (The)	39,500	12,476,470
		12,476,470
Technology hardware, storage, and peripherals (6.0%)		
Apple, Inc.	343,888	44,681,368
		44,681,368
Textiles, apparel, and luxury goods (0.7%)		
Levi Strauss & Co. Class A	320,070	4,967,486
		4,967,486
Wireless telecommunication services (1.2%)		
T-Mobile US, Inc. †	65,800	9,212,001
		9,212,001
Total common stocks (cost \$576,849,222)		\$727,025,245
	Principal amount/ shares	Value
SHORT-TERM INVESTMENTS (1.7%)*		
Putnam Short Term Investment Fund Class P 4.53% ^L	Shares	10,453,100
U.S. Treasury Bills 4.042%, 1/10/23 Δ	\$100,000	99,930
U.S. Treasury Bills 3.890%, 1/17/23 Δ	600,000	599,142
U.S. Treasury Bills 3.734%, 1/24/23 Δ	1,600,000	1,596,415
Total short-term investments (cost \$12,748,231)		\$12,748,587
Total investments (cost \$589,597,453)		\$739,773,832

Notes to the fund's portfolio

Unless noted otherwise, the notes to the fund's portfolio are for the close of the fund's reporting period, which ran from January 1, 2022 through December 31, 2022 (the reporting period). Within the following notes to the portfolio, references to "Putnam Management" represent Putnam Investment Management, LLC, the fund's manager, an indirect wholly-owned subsidiary of Putnam Investments, LLC and references to "ASC 820" represent Accounting Standards Codification 820 *Fair Value Measurements and Disclosures*.

* Percentages indicated are based on net assets of \$738,492,955.

† This security is non-income-producing.

Δ This security, in part or in entirety, was pledged and segregated with the custodian for collateral on certain derivative contracts at the close of the reporting period. Collateral at period end totaled \$545,842 and is included in Investments in securities on the Statement of assets and liabilities (Notes 1 and 8).

L Affiliated company (Note 5). The rate quoted in the security description is the annualized 7-day yield of the fund at the close of the reporting period.

R Real Estate Investment Trust.

Unless otherwise noted, the rates quoted in Short-term investments security descriptions represent the weighted average yield to maturity.

The dates shown on debt obligations are the original maturity dates.

FORWARD CURRENCY CONTRACTS at 12/31/22 (aggregate face value \$55,819,726)

Counterparty	Currency	Contract type*	Delivery date	Value	Aggregate face value	Unrealized appreciation/ (depreciation)
Bank of America N.A.						
	British Pound	Sell	3/15/23	\$2,237,178	\$2,258,351	\$21,173
	Danish Krone	Sell	3/15/23	4,763,896	4,626,641	(137,255)
	Euro	Sell	3/15/23	2,435,982	2,392,584	(43,398)
Barclays Bank PLC						
	British Pound	Sell	3/15/23	564,714	570,278	5,564
HSBC Bank USA, National Association						
	British Pound	Sell	3/15/23	2,352,470	2,374,291	21,821
	Danish Krone	Sell	3/15/23	4,763,896	4,620,017	(143,879)
	Euro	Sell	3/15/23	6,328,735	6,219,623	(109,112)
JPMorgan Chase Bank N.A.						
	Euro	Sell	3/15/23	7,114,126	6,989,768	(124,358)
Morgan Stanley & Co. International PLC						
	Euro	Sell	3/15/23	13,895,681	13,676,159	(219,522)
State Street Bank and Trust Co.						
	British Pound	Sell	3/15/23	2,441,725	2,466,216	24,491
	Euro	Sell	3/15/23	2,274,860	2,233,827	(41,033)
UBSAG						
	Euro	Sell	3/15/23	4,328,364	4,255,270	(73,094)
WestPac Banking Corp.						
	Euro	Sell	3/15/23	3,190,612	3,136,701	(53,911)
Unrealized appreciation						73,049
Unrealized (depreciation)						(945,562)
Total						\$(872,513)

* The exchange currency for all contracts listed is the United States Dollar.

ASC 820 establishes a three-level hierarchy for disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of the fund's investments. The three levels are defined as follows:

Level 1: Valuations based on quoted prices for identical securities in active markets.

Level 2: Valuations based on quoted prices in markets that are not active or for which all significant inputs are observable, either directly or indirectly.

Level 3: Valuations based on inputs that are unobservable and significant to the fair value measurement.

The following is a summary of the inputs used to value the fund's net assets as of the close of the reporting period:

Investments in securities:	Valuation inputs		
	Level 1	Level 2	Level 3
Common stocks*:			
Communication services	\$20,332,641	\$—	\$—
Consumer discretionary	91,629,339	—	—
Consumer staples	57,095,664	—	—
Financials	52,381,342	—	—
Health care	145,036,331	—	—
Industrials	59,391,637	—	—
Information technology	205,348,155	—	—
Materials	41,067,393	—	—
Real estate	20,604,406	—	—
Utilities	34,138,337	—	—
Total common stocks	727,025,245	—	—
Short-term investments	—	12,748,587	—
Totals by level	\$727,025,245	\$12,748,587	\$—

Other financial instruments:	Valuation inputs		
	Level 1	Level 2	Level 3
Forward currency contracts	\$—	\$(872,513)	\$—
Totals by level	\$—	\$(872,513)	\$—

* Common stock classifications are presented at the sector level, which may differ from the fund's portfolio presentation.

At the start and close of the reporting period, Level 3 investments in securities represented less than 1% of the fund's net assets and were not considered a significant portion of the fund's portfolio.

The accompanying notes are an integral part of these financial statements.

Statement of assets and liabilities

12/31/22

Assets	
Investment in securities, at value (Notes 1 and 8):	
Unaffiliated issuers (identified cost \$579,144,353)	\$729,320,732
Affiliated issuers (identified cost \$10,453,100) (Note 5)	10,453,100
Cash	10
Foreign currency (cost \$2,887) (Note 1)	2,910
Dividends, interest and other receivables	831,249
Foreign tax reclaim	217,018
Receivable for shares of the fund sold	47,546
Unrealized appreciation on forward currency contracts (Note 1)	73,049
Total assets	740,945,614
Liabilities	
Payable for shares of the fund repurchased	539,521
Payable for compensation of Manager (Note 2)	355,200
Payable for custodian fees (Note 2)	9,836
Payable for investor servicing fees (Note 2)	88,867
Payable for Trustee compensation and expenses (Note 2)	360,633
Payable for administrative services (Note 2)	9,029
Payable for distribution fees (Note 2)	29,207
Unrealized depreciation on forward currency contracts (Note 1)	945,562
Other accrued expenses	114,804
Total liabilities	2,452,659
Net assets	\$738,492,955
Represented by	
Paid-in capital (Unlimited shares authorized) (Notes 1 and 4)	\$560,172,107
Total distributable earnings (Note 1)	178,320,848
Total — Representing net assets applicable to capital shares outstanding	\$738,492,955
Computation of net asset value Class IA	
Net assets	\$604,284,097
Number of shares outstanding	17,734,450
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$34.07
Computation of net asset value Class IB	
Net assets	\$134,208,858
Number of shares outstanding	4,109,019
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$32.66

The accompanying notes are an integral part of these financial statements.

Statement of operations

Year ended 12/31/22

Investment income

Dividends (net of foreign tax of \$65,898)	\$9,520,263
Interest (including interest income of \$147,470 from investments in affiliated issuers) (Note 5)	173,566
Securities lending (net of expenses) (Notes 1 and 5)	10,613
Total investment income	9,704,442

Expenses

Compensation of Manager (Note 2)	4,502,964
Investor servicing fees (Note 2)	575,526
Custodian fees (Note 2)	23,477
Trustee compensation and expenses (Note 2)	35,021
Distribution fees (Note 2)	372,689
Administrative services (Note 2)	25,386
Other	296,107
Total expenses	5,831,170
Expense reduction (Note 2)	(57)
Net expenses	5,831,113
Net investment income	3,873,329

Realized and unrealized gain (loss)

Net realized gain (loss) on:	
Securities from unaffiliated issuers (Notes 1 and 3)	23,227,899
Foreign currency transactions (Note 1)	(7,635)
Forward currency contracts (Note 1)	2,736,685
Total net realized gain	25,956,949
Change in net unrealized appreciation (depreciation) on:	
Securities from unaffiliated issuers	(261,747,166)
Assets and liabilities in foreign currencies	(11,947)
Forward currency contracts	(753,055)
Total change in net unrealized depreciation	(262,512,168)
Net loss on investments	(236,555,219)
Net decrease in net assets resulting from operations	(\$232,681,890)

The accompanying notes are an integral part of these financial statements.

Statement of changes in net assets

	Year ended 12/31/22	Year ended 12/31/21
Increase (decrease) in net assets		
Operations:		
Net investment income	\$3,873,329	\$4,708,297
Net realized gain on investments and foreign currency transactions	25,956,949	123,479,418
Change in net unrealized appreciation (depreciation) of investments and assets and liabilities in foreign currencies	(262,512,168)	84,093,586
Net increase (decrease) in net assets resulting from operations	(232,681,890)	212,281,301
Distributions to shareholders (Note 1):		
From ordinary income		
Net investment income		
Class IA	(5,742,321)	(2,771,770)
Class IB	(861,446)	(262,572)
Net realized short-term gain on investments		
Class IA	(13,582,998)	(5,994,758)
Class IB	(3,134,471)	(1,415,608)
From net realized long-term gain on investments		
Class IA	(85,338,520)	(68,133,966)
Class IB	(19,693,083)	(16,089,217)
Increase (decrease) from capital share transactions (Note 4)	55,922,567	(3,963,706)
Total increase (decrease) in net assets	(305,112,162)	113,649,704
Net assets:		
Beginning of year	1,043,605,117	929,955,413
End of year	\$738,492,955	\$1,043,605,117

The accompanying notes are an integral part of these financial statements.

Financial highlights

(For a common share outstanding throughout the period)

Period ended	INVESTMENT OPERATIONS:				LESS DISTRIBUTIONS:				RATIOS AND SUPPLEMENTAL DATA:				
	Net asset value, beginning of period	Net investment income (loss) ^a	Net realized and unrealized gain (loss) on investments	Total from investment operations	From net investment income	From net realized gain on investments	Total distributions	Net asset value, end of period	Total return at net asset value (%) ^{b,c}	Net assets, end of period (in thousands)	Ratio of expenses to average net assets (%) ^{b,d}	Ratio of net investment income (loss) to average net assets (%)	Portfolio turnover (%)
Class IA													
12/31/22	\$51.06	.19	(10.77)	(10.58)	(.35)	(6.06)	(6.41)	\$34.07	(22.72)	\$604,284	.66 ^e	.52	35
12/31/21	45.76	.25	9.82	10.07	(.17)	(4.60)	(4.77)	51.06	23.87	853,687	.64	.51	27
12/31/20	39.92	.23	9.40	9.63	(.27)	(3.52)	(3.79)	45.76	29.04	754,639	.66	.60	29
12/31/19	34.29	.21	11.36	11.57	(.28)	(5.66)	(5.94)	39.92	36.72	648,610	.66	.56	29
12/31/18	39.72	.15	(.52)	(.37)	(.01)	(5.05)	(5.06)	34.29	(1.28)	530,487	.68	.40	63
Class IB													
12/31/22	\$49.21	.10	(10.36)	(10.26)	(.23)	(6.06)	(6.29)	\$32.66	(22.91)	\$134,209	.91 ^e	.27	35
12/31/21	44.27	.12	9.49	9.61	(.07)	(4.60)	(4.67)	49.21	23.56	189,918	.89	.27	27
12/31/20	38.74	.13	9.09	9.22	(.17)	(3.52)	(3.69)	44.27	28.71	175,316	.91	.35	29
12/31/19	33.42	.11	11.05	11.16	(.18)	(5.66)	(5.84)	38.74	36.36	157,733	.91	.31	29
12/31/18	38.92	.06	(.51)	(.45)	—	(5.05)	(5.05)	33.42	(1.53)	133,478	.93	.15	63

Before April 30, 2018, the fund was managed with a materially different investment strategy and may have achieved materially different performance results under its current investment strategy from that shown for periods before this date.

- ^a Per share net investment income (loss) has been determined on the basis of the weighted average number of shares outstanding during the period.
- ^b The charges and expenses at the insurance company separate account level are not reflected.
- ^c Total return assumes dividend reinvestment.
- ^d Includes amounts paid through expense offset and/or brokerage service arrangements, if any (Note 2). Also excludes acquired fund fees and expenses, if any.
- ^e Includes one-time proxy cost of 0.01%.

The accompanying notes are an integral part of these financial statements.

Notes to financial statements 12/31/22

Within the following Notes to financial statements, references to “State Street” represent State Street Bank and Trust Company, references to “the SEC” represent the Securities and Exchange Commission, references to “Putnam Management” represent Putnam Investment Management, LLC, the fund’s manager, an indirect wholly-owned subsidiary of Putnam Investments, LLC and references to “OTC”, if any, represent over-the-counter. Unless otherwise noted, the “reporting period” represents the period from January 1, 2022 through December 31, 2022.

Putnam VT Sustainable Leaders Fund (the fund) is a diversified series of Putnam Variable Trust (the Trust), a Massachusetts business trust registered under the Investment Company Act of 1940, as amended, as an open-end management investment company. The goal of the fund is to seek long-term capital appreciation. The fund invests mainly in common stocks of U.S. companies of any size, with a focus on companies that Putnam Management believes exhibit a commitment to financially material sustainable business practices. In evaluating investments for the fund, Putnam Management views “financially material sustainable business practices” as business practices that Putnam Management believes are reasonably likely to impact the financial condition or operating performance of a company and that relate to environmental, social, or corporate governance issues. Putnam Management identifies relevant environmental, social, or corporate governance issues on a sector-specific basis using an internally developed materiality map, which is informed by the sustainability issues identified by the Sustainability Accounting Standards Board as material to companies within a particular industry. As part of this analysis, Putnam Management may utilize metrics and information such as emissions data, carbon intensity, sources of energy used for operations, water use and re-use, water generation and diversion from landfill, employee safety and diversity data, supplier audits, product safety, board composition, and incentive compensation structures. Stocks of companies that exhibit a commitment to financially material sustainable business practices are typically, but not always, considered to be growth stocks. Growth stocks are stocks of companies whose revenues, earnings, or cash flows are expected to grow faster than those of similar firms, and whose business growth and other characteristics may lead to an increase in stock price. Putnam Management may consider, among other factors, a company’s sustainable business practices (as described above), valuation, financial strength, growth potential, competitive position in its industry, projected future earnings, cash flows and dividends when deciding whether to buy or sell investments. The fund may also invest in non-U.S. companies.

Under normal circumstances, the fund invests at least 80% of the value of its net assets in securities that meet the sustainability criteria. These criteria are based on a proprietary materiality map that is informed by the sustainability issues identified as material by the Sustainability Accounting Standards Board. In applying these criteria, Putnam Management will assign each company a proprietary environmental, social and/or corporate governance (ESG) rating ranging from 1 to 4 (1 indicating the highest (best) ESG rating and 4 indicating the lowest (worst) ESG rating). In order to meet Putnam Management’s sustainability criteria for purposes of this investment policy, a company must be rated 2 or 1 by Putnam Management. This policy is non-fundamental and may be changed only after 60 days’ notice to shareholders. In selecting each investment, Putnam Management focuses on companies that have a demonstrated commitment to sustainable business practices in areas that are relevant and material to their long-term financial returns and risk profiles. Putnam Management believes that companies that have exhibited such a commitment also often demonstrate potential for strong financial growth. This commitment may be reflected through ESG policies, practices, or outcomes. The fund’s approach to sustainable investing incorporates fundamental research together with consideration of ESG factors. Environmental factors include, for example, a company’s carbon intensity and use of resources like water or minerals. Sustainability measures in this area might include plans to reduce waste, increase recycling, raise the proportion of energy supply from renewable sources, or improve product design to be less resource intensive. Social factors include, for example, labor practices and supply chain management. Sustainability in this might include programs to improve employee well-being, commitment to workplace equality and diversity, or improved stewardship of supplier relationships and working conditions. Corporate governance factors include, for example, board composition and executive compensation. Sustainability measures in this area might include improvements in board independence or diversity, or alignment of management incentives with the company’s strategic sustainability objectives. The integrated approach of the fund combines analysis of the growing body of ESG data and deep fundamental analysis and looks for companies that demonstrate leadership, beyond compliance, on relevant sustainability issues.

The characteristics that Putnam Management may use when considering sustainability leadership include:

- (1) Materiality. The company is focused on sustainability issues that are relevant to long term business success.
- (2) Creativity and proactiveness. The company’s sustainability characteristics go beyond compliance to demonstrate heightened commitment.
- (3) Transparency. The company’s goals are specific, with candid and consistent progress reporting.
- (4) Impact. The sustainability characteristics create benefits that are meaningful both at the company and more broadly.

The fund offers class IA and class IB shares of beneficial interest. Class IA shares are offered at net asset value and are not subject to a distribution fee. Class IB shares are offered at net asset value and pay an ongoing distribution fee, which is identified in Note 2.

In the normal course of business, the fund enters into contracts that may include agreements to indemnify another party under given circumstances. The fund’s maximum exposure under these arrangements is unknown as this would involve future claims that may be, but have not yet been, made against the fund. However, the fund’s management team expects the risk of material loss to be remote.

The fund has entered into contractual arrangements with an investment adviser, administrator, distributor, shareholder servicing agent and custodian, who each provide services to the fund. Unless expressly stated otherwise, shareholders are not parties to, or intended beneficiaries of these contractual arrangements, and these contractual arrangements are not intended to create any shareholder right to enforce them against the service providers or to seek any remedy under them against the service providers, either directly or on behalf of the fund.

Under the fund’s Amended and Restated Agreement and Declaration of Trust, any claims asserted against or on behalf of the Putnam Funds, including claims against Trustees and Officers, must be brought in state and federal courts located within the Commonwealth of Massachusetts.

Note 1 — Significant accounting policies

The following is a summary of significant accounting policies consistently followed by the fund in the preparation of its financial statements. The preparation of financial statements is in conformity with accounting principles generally accepted in the United States of America and requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities in the financial statements and the reported amounts of increases and decreases in net assets from operations. Actual results could differ from those estimates. Subsequent events after the Statement of assets and liabilities date through the date that the financial statements were issued have been evaluated in the preparation of the financial statements.

Investment income, realized and unrealized gains and losses and expenses of the fund are borne pro-rata based on the relative net assets of each class to the total net assets of the fund, except that each class bears expenses unique to that class (including the distribution fees applicable to such classes). Each class votes as a class only with respect to its own distribution plan or other matters on which a class vote is required by law or determined by the Trustees. If the fund were liquidated, shares of each class would receive their pro-rata share of the net assets of the fund. In addition, the Trustees declare separate dividends on each class of shares.

Security valuation Portfolio securities and other investments are valued using policies and procedures adopted by the Board of Trustees. The Trustees have formed a Pricing Committee to oversee the implementation of these procedures and have delegated responsibility for valuing the fund’s assets in accordance with these procedures to Putnam Management. Putnam Management has established an internal Valuation Committee that is responsible for making fair value determinations, evaluating the effectiveness of the pricing policies of the fund and reporting to the Pricing Committee.

Investments for which market quotations are readily available are valued at the last reported sales price on their principal exchange, or official closing price for certain markets, and are classified as Level 1 securities under Accounting Standards Codification 820 *Fair Value Measurements and Disclosures* (ASC 820). If no sales are reported, as in the case of some securities that are traded OTC, a security is valued at its last reported bid price and is generally categorized as a Level 2 security.

Investments in open-end investment companies (excluding exchange-traded funds), if any, which can be classified as Level 1 or Level 2 securities, are valued based on their net asset value. The net asset value of such investment companies equals the total value of their assets less their liabilities and divided by the number of their outstanding shares.

Market quotations are not considered to be readily available for certain debt obligations (including short-term investments with remaining maturities of 60 days or less) and other investments; such investments are valued on the basis of valuations furnished by an independent pricing service approved by the Trustees or dealers selected by Putnam Management. Such services or dealers determine valuations for normal institutional-size trading units of such securities using methods based on market transactions for comparable securities and various relationships, generally recognized by institutional traders, between securities (which consider such factors as security prices, yields, maturities and ratings). These securities will generally be categorized as Level 2.

Many securities markets and exchanges outside the U.S. close prior to the scheduled close of the New York Stock Exchange and therefore the closing prices for securities in such markets or on such exchanges may not fully reflect events that occur after such close but before the scheduled close of the New York Stock Exchange. Accordingly, on certain days, the fund will fair value certain foreign equity securities taking into account multiple factors including movements in the U.S. securities markets, currency valuations and comparisons to the valuation of American Depository Receipts, exchange-traded funds and futures contracts. The foreign equity securities, which would generally be classified as Level 1 securities, will be transferred to Level 2 of the fair value hierarchy when they are valued at fair value. The number of days on which fair value prices will be used will depend on market activity and it is possible that fair value prices will be used by the fund to a significant extent. Securities quoted in foreign currencies, if any, are translated into U.S. dollars at the current exchange rate.

To the extent a pricing service or dealer is unable to value a security or provides a valuation that Putnam Management does not believe accurately reflects the security's fair value, the security will be valued at fair value by Putnam Management in accordance with policies and procedures approved by the Trustees. Certain investments, including certain restricted and illiquid securities and derivatives, are also valued at fair value following procedures approved by the Trustees. These valuations consider such factors as significant market or specific security events such as interest rate or credit quality changes, various relationships with other securities, discount rates, U.S. Treasury, U.S. swap and credit yields, index levels, convexity exposures, recovery rates, sales and other multiples and resale restrictions. These securities are classified as Level 2 or as Level 3 depending on the priority of the significant inputs.

To assess the continuing appropriateness of fair valuations, the Valuation Committee reviews and affirms the reasonableness of such valuations on a regular basis after considering all relevant information that is reasonably available. Such valuations and procedures are reviewed periodically by the Trustees. The fair value of securities is generally determined as the amount that the fund could reasonably expect to realize from an orderly disposition of such securities over a reasonable period of time. By its nature, a fair value price is a good faith estimate of the value of a security in a current sale and does not reflect an actual market price, which may be different by a material amount.

Joint trading account Pursuant to an exemptive order from the SEC, the fund may transfer uninvested cash balances into a joint trading account along with the cash of other registered investment companies and certain other accounts managed by Putnam Management. These balances may be invested in issues of short-term investments having maturities of up to 90 days.

Repurchase agreements The fund, or any joint trading account, through its custodian, receives delivery of the underlying securities, the fair value of which at the time of purchase is required to be in an amount at least equal to the resale price, including accrued interest. Collateral for certain tri-party repurchase agreements is held at the counterparty's custodian in a segregated account for the benefit of the fund and the counterparty. Putnam Management is responsible for determining that the value of these underlying securities is at all times at least equal to the resale price, including accrued interest. In the event of default or bankruptcy by the other party to the agreement, retention of the collateral may be subject to legal proceedings.

Security transactions and related investment income Security transactions are recorded on the trade date (the date the order to buy or sell is executed). Gains or losses on securities sold are determined on the identified cost basis.

Interest income, net of any applicable withholding taxes, if any, is recorded on the accrual basis. Amortization and accretion of premiums and discounts on debt securities, if any, is recorded on the accrual basis.

Dividend income, net of any applicable withholding taxes, is recognized on the ex-dividend date except that certain dividends from foreign securities, if any, are recognized as soon as the fund is informed of the ex-dividend date. Non-cash dividends, if any, are recorded at the fair value of the securities received. Dividends representing a return of capital or capital gains, if any, are reflected as a reduction of cost and/or as a realized gain.

Foreign currency translation The accounting records of the fund are maintained in U.S. dollars. The fair value of foreign securities, currency holdings, and other assets and liabilities is recorded in the books and records of the fund after translation to U.S. dollars based on the exchange rates on that day. The cost of each security is determined using historical exchange rates. Income and withholding taxes are translated at prevailing exchange rates when earned or incurred. The fund does not isolate that portion of realized or unrealized gains or losses resulting from changes in the foreign exchange rate on investments from fluctuations arising from changes in the market prices of the securities. Such gains and losses are included with the net realized and unrealized gain or loss on investments. Net realized gains and losses on foreign currency transactions represent net realized exchange gains or losses on disposition of foreign currencies, currency gains and losses realized between the trade and settlement dates on securities transactions and the difference between the amount of investment income and foreign withholding taxes recorded on the fund's books and the U.S. dollar equivalent amounts actually received or paid. Net unrealized appreciation and depreciation of assets and liabilities in foreign currencies arise from changes in the value of assets and liabilities other than investments at the period end, resulting from changes in the exchange rate.

Forward currency contracts The fund buys and sells forward currency contracts, which are agreements between two parties to buy and sell currencies at a set price on a future date. These contracts are used to hedge foreign exchange risk.

The U.S. dollar value of forward currency contracts is determined using current forward currency exchange rates supplied by a quotation service. The fair value of the contract will fluctuate with changes in currency exchange rates. The contract is marked to market daily and the change in fair value is recorded as an unrealized gain or loss. The fund records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed when the contract matures or by delivery of the currency. The fund could be exposed to risk if the value of the currency changes unfavorably, if the counterparties to the contracts are unable to meet the terms of their contracts or if the fund is unable to enter into a closing position. Risks may exceed amounts recognized on the Statement of assets and liabilities.

Forward currency contracts outstanding at period end, if any, are listed after the fund's portfolio.

Master agreements The fund is a party to ISDA (International Swaps and Derivatives Association, Inc.) Master Agreements (Master Agreements) with certain counterparties that govern OTC derivative and foreign exchange contracts entered into from time to time. The Master Agreements may contain provisions regarding, among other things, the parties' general obligations, representations, agreements, collateral requirements, events of default and early termination. With respect to certain counterparties, in accordance with the terms of the Master Agreements, collateral pledged to the fund is held in a segregated account by the fund's custodian and, with respect to those amounts which can be sold or repledged, is presented in the fund's portfolio.

Collateral pledged by the fund is segregated by the fund's custodian and identified in the fund's portfolio. Collateral can be in the form of cash or debt securities issued by the U.S. Government or related agencies or other securities as agreed to by the fund and the applicable counterparty. Collateral requirements are determined based on the fund's net position with each counterparty.

Termination events applicable to the fund may occur upon a decline in the fund's net assets below a specified threshold over a certain period of time. Termination events applicable to counterparties may occur upon a decline in the counterparty's long-term and short-term credit ratings below a specified level. In each case, upon occurrence, the other party may elect to terminate early and cause settlement of all derivative and foreign exchange contracts outstanding, including the payment of any losses and costs resulting from such early termination, as reasonably determined by the terminating party. Any decision by one or more of the fund's counterparties to elect early termination could impact the fund's future derivative activity.

At the close of the reporting period, the fund had a net liability position of \$878,077 on open derivative contracts subject to the Master Agreements. Collateral pledged by the fund at period end for these agreements totaled \$545,842 and may include amounts related to unsettled agreements.

Securities lending The fund may lend securities, through its agent, to qualified borrowers in order to earn additional income. The loans are collateralized by cash in an amount at least equal to the fair value of the securities loaned. The fair value of securities loaned is determined daily and any additional required collateral is allocated to the fund on the next business day. The remaining maturities of the securities lending transactions are considered overnight and continuous. The risk of borrower default will be borne by the fund's agent; the fund will bear the risk of loss with respect to the investment of the cash collateral. Income from securities lending, net of expenses, is included in investment income on the Statement of operations. Cash collateral is invested in Putnam Cash Collateral Pool, LLC, a limited liability company managed by an affiliate of Putnam Management. Investments in Putnam Cash Collateral Pool, LLC are valued at its closing net asset value each business day. There are no management fees charged to Putnam Cash Collateral Pool, LLC. At the close of the reporting period, the fund had no securities out on loan.

Interfund lending The fund, along with other Putnam funds, may participate in an interfund lending program pursuant to an exemptive order issued by the SEC. This program allows the fund to borrow from or lend to other Putnam funds that permit such transactions. Interfund lending transactions are subject to each fund's investment policies and borrowing and lending limits. Interest earned or paid on the interfund lending transaction will be based on the average of certain current market rates. During the reporting period, the fund did not utilize the program.

Lines of credit The fund participates, along with other Putnam funds, in a \$100 million (\$317.5 million prior to October 14, 2022) unsecured committed line of credit and a \$235.5 million unsecured uncommitted line of credit, both provided by State Street. Borrowings may be made for temporary or emergency purposes, including the funding of shareholder redemption requests and trade settlements. Interest is charged to the fund based on the fund's borrowing at a rate equal to 1.25% plus the higher of (1) the Federal Funds rate and (2) the Overnight Bank Funding Rate for the committed line of credit and 1.30% plus the higher of (1) the Federal Funds rate and (2) the Overnight Bank Funding Rate for the uncommitted line of credit. A closing fee equal to 0.04% of the committed line of credit and 0.04% of the uncommitted line of credit has been paid by the participating funds. In addition, a commitment fee of 0.21% per annum on any unutilized portion of the committed line of credit is allocated to the participating funds based on their relative net assets and paid quarterly. During the reporting period, the fund had no borrowings against these arrangements.

Federal taxes It is the policy of the fund to distribute all of its taxable income within the prescribed time period and otherwise comply with the provisions of the Internal Revenue Code of 1986, as amended (the Code), applicable to regulated investment companies.

The fund is subject to the provisions of Accounting Standards Codification 740 *Income Taxes* (ASC 740). ASC 740 sets forth a minimum threshold for financial statement recognition of the benefit of a tax position taken or expected to be taken in a tax return. The fund did not have a liability to record for any unrecognized tax benefits in the accompanying financial statements. No provision has been made for federal taxes on income, capital gains or unrealized appreciation on securities held nor for excise tax on income and capital gains. Each of the fund's federal tax returns for the prior three fiscal years remains subject to examination by the Internal Revenue Service.

The fund may also be subject to taxes imposed by governments of countries in which it invests. Such taxes are generally based on either income or gains earned or repatriated. The fund accrues and applies such taxes to income or gains earned or repatriated. The fund accrues and applies such taxes to net investment income, net realized gains and net unrealized gains as income and/or capital gains are earned. In some cases, the fund may be entitled to reclaim all or a portion of such taxes, and such reclaim amounts, if any, are reflected as an asset on the fund's books. In many cases, however, the fund may not receive such amounts for an extended period of time, depending on the country of investment.

Distributions to shareholders Distributions to shareholders from net investment income are recorded by the fund on the ex-dividend date. Distributions from capital gains, if any, are recorded on the ex-dividend date and paid at least annually. The amount and character of income and gains to be distributed are determined in accordance with income tax regulations, which may differ from generally accepted accounting principles. These differences include temporary and/or permanent differences from losses on wash sale transactions, foreign currency gains and losses and a redesignation of taxable income. Reclassifications

are made to the fund's capital accounts to reflect income and gains available for distribution (or available capital loss carryovers) under income tax regulations. At the close of the reporting period, the fund reclassified \$2,686,690 to increase undistributed net investment income and \$2,686,690 to decrease accumulated net realized gain.

Tax cost of investments includes adjustments to net unrealized appreciation (depreciation) which may not necessarily be final tax cost basis adjustments, but closely approximate the tax basis unrealized gains and losses that may be realized and distributed to shareholders. The tax basis components of distributable earnings and the federal tax cost as of the close of the reporting period were as follows:

Unrealized appreciation	\$207,901,441
Unrealized depreciation	(58,863,752)
Net unrealized appreciation	149,037,689
Undistributed ordinary income	5,304,683
Undistributed long-term gains	23,989,400
Cost for federal income tax purposes	\$589,863,630

Expenses of the Trust Expenses directly charged or attributable to any fund will be paid from the assets of that fund. Generally, expenses of the Trust will be allocated among and charged to the assets of each fund on a basis that the Trustees deem fair and equitable, which may be based on the relative assets of each fund or the nature of the services performed and relative applicability to each fund.

Beneficial interest At the close of the reporting period, insurance companies or their separate accounts were record owners of all but a de minimis number of the shares of the fund. Approximately 32.8% of the fund is owned by accounts of one insurance company.

Note 2 — Management fee, administrative services and other transactions

The fund pays Putnam Management a management fee (based on the fund's average net assets and computed and paid monthly) at annual rates that may vary based on the average of the aggregate net assets of all open-end mutual funds sponsored by Putnam Management (excluding net assets of funds that are invested in, or that are invested in by, other Putnam funds to the extent necessary to avoid "double counting" of those assets). Such annual rates may vary as follows:

0.710%	of the first \$5 billion,
0.660%	of the next \$5 billion,
0.610%	of the next \$10 billion,
0.560%	of the next \$10 billion,
0.510%	of the next \$50 billion,
0.490%	of the next \$50 billion,
0.480%	of the next \$100 billion and
0.475%	of any excess thereafter.

For the reporting period, the management fee represented an effective rate (excluding the impact from any expense waivers in effect) of 0.548% of the fund's average net assets.

Putnam Management has contractually agreed, through April 30, 2024, to waive fees and/or reimburse the fund's expenses to the extent necessary to limit the cumulative expenses of the fund, exclusive of brokerage, interest, taxes, investment-related expenses, extraordinary expenses, acquired fund fees and expenses and payments under the fund's investor servicing contract, investment management contract and distribution plan, on a fiscal year-to-date basis to an annual rate of 0.20% of the fund's average net assets over such fiscal year-to-date period. During the reporting period, the fund's expenses were not reduced as a result of this limit.

Putnam Investments Limited (PIL), an affiliate of Putnam Management, is authorized by the Trustees to manage a separate portion of the assets of the fund as determined by Putnam Management from time to time. PIL did not manage any portion of the assets of the fund during the reporting period. If Putnam Management were to engage the services of PIL, Putnam Management would pay a quarterly sub-management fee to PIL for its services at an annual rate of 0.25% (prior to July 1, 2022, the annual rate was 0.35%) of the average net assets of the portion of the fund managed by PIL.

The fund reimburses Putnam Management an allocated amount for the compensation and related expenses of certain officers of the fund and their staff who provide administrative services to the fund. The aggregate amount of all such reimbursements is determined annually by the Trustees.

Custodial functions for the fund's assets are provided by State Street. Custody operations are based on the fund's asset level, the number of its security holdings and transaction volumes.

Putnam Investor Services, Inc., an affiliate of Putnam Management, provides investor servicing agent functions to the fund. Putnam Investor Services, Inc. was paid a monthly fee for investor servicing at an annual rate of 0.07% of the fund's average daily net assets. During the reporting period, the expenses for each class of shares related to investor servicing fees were as follows:

Class IA	\$471,099
Class IB	104,427
Total	\$575,526

The fund has entered into expense offset arrangements with Putnam Investor Services, Inc. and State Street whereby Putnam Investor Services, Inc.'s and State Street's fees are reduced by credits allowed on cash balances. For the reporting period, the fund's expenses were reduced by \$57 under the expense offset arrangements.

Each Independent Trustee of the fund receives an annual Trustee fee, of which \$629, as a quarterly retainer, has been allocated to the fund, and an additional fee for each Trustees meeting attended. Trustees also are reimbursed for expenses they incur relating to their services as Trustees.

The fund has adopted a Trustee Fee Deferral Plan (the Deferral Plan) which allows the Trustees to defer the receipt of all or a portion of Trustees fees payable on or after July 1, 1995. The deferred fees remain invested in certain Putnam funds until distribution in accordance with the Deferral Plan.

The fund has adopted an unfunded noncontributory defined benefit pension plan (the Pension Plan) covering all Trustees of the fund who have served as a Trustee for at least five years and were first elected prior to 2004. Benefits under the Pension Plan are equal to 50% of the Trustee's average annual attendance and retainer fees for the three years ended December 31, 2005. The retirement benefit is payable during a Trustee's lifetime, beginning the year following retirement, for the number of years of service through December 31, 2006. Pension expense for

the fund is included in Trustee compensation and expenses in the Statement of operations. Accrued pension liability is included in Payable for Trustee compensation and expenses in the Statement of assets and liabilities. The Trustees have terminated the Pension Plan with respect to any Trustee first elected after 2003.

The fund has adopted a distribution plan (the Plan) with respect to its class IB shares pursuant to Rule 12b-1 under the Investment Company Act of 1940. The purpose of the Plan is to compensate Putnam Retail Management Limited Partnership, an indirect wholly-owned subsidiary of Putnam Investments, LLC, for services provided and expenses incurred in distributing shares of the fund. The Plan provides for payment by the fund to Putnam Retail Management Limited Partnership at an annual rate of up to 0.35% of the average net assets attributable to the fund's class IB shares. The Trustees have approved payment by the fund at an annual rate of 0.25% of the average net assets attributable to the fund's class IB shares. The expenses related to distribution fees during the reporting period are included in Distribution fees in the Statement of operations.

Note 3 — Purchases and sales of securities

During the reporting period, the cost of purchases and the proceeds from sales, excluding short-term investments, were as follows:

	Cost of purchases	Proceeds from sales
Investments in securities (Long-term)	\$287,869,911	\$356,460,322
U.S. government securities (Long-term)	—	—
Total	\$287,869,911	\$356,460,322

The fund may purchase or sell investments from or to other Putnam funds in the ordinary course of business, which can reduce the fund's transaction costs, at prices determined in accordance with SEC requirements and policies approved by the Trustees. During the reporting period, purchases or sales of long-term securities from or to other Putnam funds, if any, did not represent more than 5% of the fund's total cost of purchases and/or total proceeds from sales.

Note 4 — Capital shares

At the close of the reporting period, there were an unlimited number of shares of beneficial interest authorized. Subscriptions and redemptions are presented at the omnibus level. Transactions in capital shares were as follows:

	Class IA shares				Class IB shares			
	Year ended 12/31/22		Year ended 12/31/21		Year ended 12/31/22		Year ended 12/31/21	
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount
Shares sold	177,660	\$6,851,834	122,801	\$5,853,306	112,395	\$3,994,183	122,724	\$5,695,274
Shares issued in connection with reinvestment of distributions	2,584,292	104,663,839	1,773,944	76,900,494	608,972	23,689,000	424,550	17,767,397
	2,761,952	111,515,673	1,896,745	82,753,800	721,367	27,683,183	547,274	23,462,671
Shares repurchased	(1,745,795)	(66,047,969)	(1,670,230)	(80,075,971)	(471,589)	(17,228,320)	(648,315)	(30,104,206)
Net increase (decrease)	1,016,157	\$45,467,704	226,515	\$2,677,829	249,778	\$10,454,863	(101,041)	\$(6,641,535)

Note 5 — Affiliated transactions

Transactions during the reporting period with any company which is under common ownership or control were as follows:

Name of affiliate	Fair value as of 12/31/21	Purchase cost	Sale proceeds	Investment income	Shares outstanding and fair value as of 12/31/22
Short-term investments					
Putnam Cash Collateral Pool, LLC*	\$3,478,475	\$84,761,378	\$88,239,853	\$17,581	\$—
Putnam Short Term Investment Fund**	10,985,166	107,716,629	108,248,695	147,470	10,453,100
Total Short-term investments	\$14,463,641	\$192,478,007	\$196,488,548	\$165,051	\$10,453,100

*No management fees are charged to Putnam Cash Collateral Pool, LLC (Note 1). Investment income shown is included in securities lending income on the Statement of operations. There were no realized or unrealized gains or losses during the period.

**Management fees charged to Putnam Short Term Investment Fund have been waived by Putnam Management. There were no realized or unrealized gains or losses during the period.

Note 6 — Market, credit and other risks

In the normal course of business, the fund trades financial instruments and enters into financial transactions where risk of potential loss exists due to changes in the market (market risk) or failure of the contracting party to the transaction to perform (credit risk). The fund may be exposed to additional credit risk that an institution or other entity with which the fund has unsettled or open transactions will default. Investments in foreign securities involve certain risks, including those related to economic instability, unfavorable political developments, and currency fluctuations.

The Covid-19 pandemic and efforts to contain its spread have resulted in, among other effects, significant market volatility, exchange trading suspensions and closures, declines in global financial markets, higher default rates, significant changes in fiscal and monetary policies, and economic downturns and recessions. The effects of the Covid-19 pandemic have negatively affected, and may continue to negatively affect, the global economy, the economies of the United States and other individual countries, the financial performance of individual issuers, sectors, industries, asset classes, and markets, and the value, volatility, and liquidity of particular securities and other assets. The effects of the Covid-19 pandemic also are likely to exacerbate other risks that apply to the fund, which could negatively impact the fund's performance and lead to losses on your investment in the fund. The duration of the Covid-19 pandemic and its effects cannot be determined with certainty.

Note 7 — Summary of derivative activity

The volume of activity for the reporting period for any derivative type that was held during the period is listed below and was based on an average of the holdings at the end of each fiscal quarter:

Forward currency contracts (contract amount)	\$44,900,000
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The following is a summary of the fair value of derivative instruments as of the close of the reporting period:

Fair value of derivative instruments as of the close of the reporting period

Derivatives not accounted for as hedging instruments under ASC 815	Asset derivatives		Liability derivatives	
	Statement of assets and liabilities location	Fair value	Statement of assets and liabilities location	Fair value
Foreign exchange contracts	Receivables	\$73,049	Payables	\$945,562
Total		\$73,049		\$945,562

The following is a summary of realized and change in unrealized gains or losses of derivative instruments in the Statement of operations for the reporting period (Note 1):

Amount of realized gain or (loss) on derivatives recognized in net gain or (loss) on investments

Derivatives not accounted for as hedging instruments under ASC 815	Forward currency contracts	Total
Foreign exchange contracts	\$2,736,685	\$2,736,685
Total	\$2,736,685	\$2,736,685

Change in unrealized appreciation or (depreciation) on derivatives recognized in net gain or (loss) on investments

Derivatives not accounted for as hedging instruments under ASC 815	Forward currency contracts	Total
Foreign exchange contracts	\$(753,055)	\$(753,055)
Total	\$(753,055)	\$(753,055)

Note 8 — Offsetting of financial and derivative assets and liabilities

The following table summarizes any derivatives, repurchase agreements and reverse repurchase agreements, at the end of the reporting period, that are subject to an enforceable master netting agreement or similar agreement. For securities lending transactions or borrowing transactions associated with securities sold short, if any, see Note 1. For financial reporting purposes, the fund does not offset financial assets and financial liabilities that are subject to the master netting agreements in the Statement of assets and liabilities.

	Bank of America N.A.	Barclays Bank PLC	HSBC Bank USA, National Association	JPMorgan Chase Bank N.A.	Morgan Stanley & Co. International PLC	State Street Bank and Trust Co.	UBS AG	WestPac Banking Corp.	Total
Assets:									
Forward currency contracts [#]	\$21,173	\$5,564	\$21,821	\$—	\$—	\$24,491	\$—	\$—	\$73,049
Total Assets	\$21,173	\$5,564	\$21,821	\$—	\$—	\$24,491	\$—	\$—	\$73,049
Liabilities:									
Forward currency contracts [#]	180,653	—	252,991	124,358	219,522	41,033	73,094	53,911	945,562
Total Liabilities	\$180,653	\$—	\$252,991	\$124,358	\$219,522	\$41,033	\$73,094	\$53,911	\$945,562
Total Financial and Derivative Net Assets	\$(159,480)	\$5,564	\$(231,170)	\$(124,358)	\$(219,522)	\$(16,542)	\$(73,094)	\$(53,911)	\$(872,513)
Total collateral received (pledged) ^{†##}	\$(111,783)	\$—	\$(159,661)	\$(80,806)	\$(153,688)	\$—	\$(39,904)	\$—	
Net amount	\$(47,697)	\$5,564	\$(71,509)	\$(43,552)	\$(65,834)	\$(16,542)	\$(33,190)	\$(53,911)	
Controlled collateral received (including TBA commitments) ^{**}	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—
Uncontrolled collateral received	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—
Collateral (pledged) (including TBA commitments) ^{**}	\$(111,783)	\$—	\$(159,661)	\$(80,806)	\$(153,688)	\$—	\$(39,904)	\$—	\$(545,842)

^{**} Included with Investments in securities on the Statement of assets and liabilities.

[†] Additional collateral may be required from certain brokers based on individual agreements.

[#] Covered by master netting agreement (Note 1).









^{##} Any over-collateralization of total financial and derivative net assets is not shown. Collateral may include amounts related to unsettled agreements.

Federal tax information (Unaudited)

Pursuant to §852 of the Internal Revenue Code, as amended, the fund hereby designates \$26,423,855 as a capital gain dividend with respect to the taxable year ended December 31, 2022, or, if subsequently determined to be different, the net capital gain of such year.

The fund designated 32.17% of ordinary income distributions as qualifying for the dividends received deduction for corporations.

About the Trustees

Name	Year of birth	Position held	Principal occupations during past five years	Other directorships	
Independent Trustees					
Liaquat Ahamed	Born 1952	Trustee since 2012	Author; won Pulitzer Prize for <i>Lords of Finance: The Bankers Who Broke the World</i> .	Chair of the Sun Valley Writers Conference, a literary not-for-profit organization, and a Trustee of the Journal of Philosophy.	
Barbara M. Baumann	Born 1955	Trustee since 2010 Vice Chair since 2022	President of Cross Creek Energy Corporation, a strategic consultant to domestic energy firms and direct investor in energy projects.	Director of Devon Energy Corporation, a publicly traded independent natural gas and oil exploration and production company; Director of National Fuel Gas Company, a publicly traded energy company that engages in the production, gathering, transportation, distribution, and marketing of natural gas; Senior Advisor to the energy private equity firm First Reserve; member of the Finance Committee of the Children's Hospital of Colorado; member of the Investment Committee of the Board of The Denver Foundation; and previously a Director of publicly traded companies Buckeye Partners LP, UNS Energy Corporation, CVR Energy Company, and SM Energy Corporation.	
Katinka Domotorffy	Born 1975	Trustee since 2012	Voting member of the Investment Committees of the Anne Ray Foundation and Margaret A. Cargill Foundation, part of the Margaret A. Cargill Philanthropies.	Director of the Great Lakes Science Center and of College Now Greater Cleveland.	
Catharine Bond Hill	Born 1954	Trustee since 2017	Managing Director of Ithaca S+R, a not-for-profit service that helps the academic community navigate economic and technological change. From 2006 to 2016, Dr. Hill served as the 10th president of Vassar College.	Director of Yale-NUS College and Trustee of Yale University.	
Kenneth R. Leibler	Born 1949	Trustee since 2006 Vice Chair from 2016 to 2018, Chair since 2018	Vice Chair Emeritus of the Board of Trustees of Beth Israel Deaconess Hospital in Boston. Member of the Investment Committee of the Boston Arts Academy Foundation.	Director of Eversource Corporation, which operates New England's largest energy delivery system; previously the Chairman of the Boston Options Exchange, an electronic marketplace for the trading of listed derivatives securities; previously the Chairman and Chief Executive Officer of the Boston Stock Exchange; and previously the President and Chief Operating Officer of the American Stock Exchange.	
Jennifer Williams Murphy	Born 1964	Trustee since 2022	Chief Executive Officer and Founder of Runa Digital Assets, LLC, an institutional investment advisory firm specializing in active management of digital assets. Until 2021, Chief Operating Officer of Western Asset Management, LLC, a global investment adviser, and Chief Executive Officer and President of Western Asset Mortgage Capital Corporation, a mortgage finance real estate investment trust.	Previously, a Director of Western Asset Capital Corporation.	
Marie Pillai	Born 1954	Trustee since 2022	Senior Advisor, Hunter Street Partners, LP, an asset-oriented private investment firm; Specialty Leader and Member of the Curriculum Committee of the Center for Board Certified Fiduciaries, a public benefit corporation providing coursework for developing fiduciaries. Until 2019, Vice President, Chief Investment Officer, and Treasurer of General Mills, Inc., a global food company.	Director of the Catholic Community Foundation of Minnesota; Investment Advisory Board Member of the University of Minnesota; Member of the Investment Committee of the Bush Foundation, a nonprofit organization supporting community problem-solving in Minnesota, North Dakota, and South Dakota; Member of the Finance Council and Corporate Board of the Archdiocese of Saint Paul and Minneapolis; and previously a Board Member of Catholic Charities of St. Paul and Minneapolis.	
George Putnam III	Born 1951	Trustee since 1984	Chairman of New Generation Research, Inc., a publisher of financial advisory and other research services, and President of New Generation Advisors, LLC, a registered investment adviser to private funds.	Director of The Boston Family Office, LLC, a registered investment advisor; a Director of the Gloucester Marine Genomics Institute; a Trustee of the Lowell Observatory Foundation; and previously a Trustee of the Marine Biological Laboratory.	

Name Year of birth Position held	Principal occupations during past five years	Other directorships	
Manoj P. Singh Born 1952 Trustee since 2017	Until 2015, Chief Operating Officer and Global Managing Director at Deloitte Touche Tohmatsu, Ltd., a global professional services organization, serving on the Deloitte U.S. Board of Directors and the boards of Deloitte member firms in China, Mexico, and Southeast Asia.	Director of ReNew Energy Global plc, a publicly traded renewable energy company; Director of Abt Associates, a global research firm working in the fields of health, social and environmental policy, and international development; Trustee of Carnegie Mellon University; Director of Pratham USA, an organization dedicated to children's education in India; member of the advisory board of Altimetrik, a business transformation and technology solutions firm; and Director of DXC Technology, a global IT services and consulting company.	
Mona K. Sutphen Born 1967 Trustee since 2020	Partner, Investment Strategies, at The Vistria Group, a private investment firm focused on middle-market companies in the health care, education, and financial services industries. From 2014 to 2018, Partner at Macro Advisory Partners, a global consulting firm.	Director of Spotify Technology S.A., a publicly traded audio content streaming service; Director of Unitek Learning, a private nursing and medical services education provider in the United States; Board Member, International Rescue Committee; Co-Chair of the Board of Human Rights First; Trustee of Mount Holyoke College; member of the Advisory Board for the Center on Global Energy Policy at Columbia University's School of International and Public Affairs; previously Director of Pattern Energy and Pioneer Natural Resources, publicly traded energy companies; and previously Managing Director of UBS AG.	

Interested Trustee

Robert L. Reynolds* Born 1952 Trustee since 2008, President and Chief Executive Officer of Putnam Investments since 2008	President and Chief Executive Officer of Putnam Investments; member of Putnam Investments' Board of Directors; and Chair of Great-West Lifeco U.S. LLC. Prior to 2019, also President and Chief Executive Officer of Great-West Financial, a financial services company that provides retirement savings plans, life insurance, and annuity and executive benefits products, and of Great-West Lifeco U.S. LLC, a holding company that owns Putnam Investments and Great-West Financial, and a member of Great-West Financial's Board of Directors.	Director of the Concord Museum; Director of Dana-Farber Cancer Institute; Director of the U.S. Ski & Snowboard Foundation; Chair of the Boston Advisory Board of the American Ireland Fund; Council Co-Chair of the American Enterprise Institute; Member of U.S. Chamber of Commerce, Center for Capital Markets Competitiveness; Chair of Massachusetts High Technology Council; Member of the Chief Executives Club of Boston; Member of the Massachusetts General Hospital President's Council; Chairman of the Board of Directors of the Ron Burton Training Village; Director and former Chair of the Massachusetts Competitive Partnership; former Chair of the West Virginia University Foundation; and former Executive Committee Member of the Greater Boston Chamber of Commerce.	
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*Mr. Reynolds is an "interested person" (as defined in the Investment Company Act of 1940) of the fund and Putnam Investments. He is President and Chief Executive Officer of Putnam Investments, as well as the President of your fund and each of the other Putnam funds.

The address of each Trustee is 100 Federal Street, Boston, MA 02110.

As of December 31, 2022, there were 92 mutual funds, 4 closed-end funds, and 7 exchange-traded funds in the Putnam funds complex. Each Trustee serves as Trustee of all funds in the Putnam funds complex.

Each Trustee serves for an indefinite term, until his or her resignation, retirement at age 75, removal, or death.

Officers

In addition to Robert L. Reynolds, the other officers of the fund are shown below:

James F. Clark *(Born 1974)*

Vice President and Chief Compliance Officer
Since 2016
Chief Compliance Officer and Chief Risk Officer,
Putnam Investments, and Chief Compliance
Officer, Putnam Management

Nancy E. Florek *(Born 1957)*

Vice President, Director of Proxy Voting
and Corporate Governance, Assistant Clerk,
and Assistant Treasurer
Since 2000

Michael J. Higgins *(Born 1976)*

Vice President, Treasurer, and Clerk
Since 2010

Jonathan S. Horwitz *(Born 1955)*

Executive Vice President, Principal Executive
Officer, and Compliance Liaison
Since 2004

Richard T. Kircher *(Born 1962)*

Vice President and BSA Compliance Officer
Since 2019
Assistant Director, Operational Compliance,
Putnam Investments and Putnam
Retail Management

Martin Lemaire *(Born 1984)*

Vice President and Derivatives Risk Manager
Since 2022
Risk Manager and Risk Analyst,
Putnam Investments

Susan G. Malloy *(Born 1957)*

Vice President and Assistant Treasurer
Since 2007
Head of Accounting and Middle Office Services,
Putnam Investments and Putnam Management

Alan G. McCormack *(Born 1964)*

Vice President and Derivatives Risk Manager
Since 2022
Head of Quantitative Equities and Risk,
Putnam Investments

Denere P. Poulack *(Born 1968)*

Assistant Vice President, Assistant Clerk,
and Assistant Treasurer
Since 2004

Janet C. Smith *(Born 1965)*

Vice President, Principal Financial
Officer, Principal Accounting Officer,
and Assistant Treasurer
Since 2007
Head of Fund Administration Services, Putnam
Investments and Putnam Management

Stephen J. Tate *(Born 1974)*

Vice President and Chief Legal Officer
Since 2021
General Counsel, Putnam Investments, Putnam
Management, and Putnam Retail Management

Mark C. Trenchard *(Born 1962)*

Vice President
Since 2002
Director of Operational Compliance, Putnam
Investments and Putnam Retail Management

The principal occupations of the officers for the past five years have been with the employers as shown above, although in some cases they have held different positions with such employers. The address of each officer is 100 Federal Street, Boston, MA 02110.

Other important information

Proxy voting

Putnam is committed to managing our mutual funds in the best interests of our shareholders. The Putnam funds' proxy voting guidelines and procedures, as well as information regarding how your fund voted proxies relating to portfolio securities during the 12-month period ended June 30, 2022, are available in the Individual Investors section of putnam.com and on the Securities and Exchange Commission's (SEC) website at www.sec.gov. If you have questions about finding forms on the SEC's website, you may call the SEC at 1-800-SEC-0330. You may also obtain the Putnam funds' proxy voting guidelines and procedures at no charge by calling Putnam's Shareholder Services at 1-800-225-1581.

Fund portfolio holdings

The fund will file a complete schedule of its portfolio holdings with the SEC for the first and third quarters of each fiscal year on Form N-PORT within 60 days of the end of such fiscal quarter. Shareholders may obtain the fund's Form N-PORT from the SEC's website at www.sec.gov.

Prior to its use of Form N-PORT, the fund filed its complete schedule of its portfolio holdings with the SEC on Form N-Q, which is available online at www.sec.gov.

Fund information

Investment Manager

Putnam Investment Management, LLC
100 Federal Street
Boston, MA 02110

Investment Sub-Advisor

Putnam Investments Limited
16 St James's Street
London, England SW1A 1ER

Marketing Services

Putnam Retail Management
Limited Partnership
100 Federal Street
Boston, MA 02110

Investor Servicing Agent

Putnam Investments
Mailing address:
P.O. Box 219697
Kansas City, MO 64121-9697
1-800-225-1581

Custodian

State Street Bank and Trust Company

Legal Counsel

Ropes & Gray LLP

Independent Registered Public Accounting Firm

PricewaterhouseCoopers LLP

Trustees

Kenneth R. Leibler, *Chair*
Barbara M. Baumann, *Vice Chair*
Liaquat Ahamed
Katinka Domotorffy
Catharine Bond Hill
Jennifer Williams Murphy
Marie Pillai
George Putnam III
Robert L. Reynolds
Manoj P. Singh
Mona K. Sutphen

The fund's Statement of Additional Information contains additional information about the fund's Trustees and is available without charge upon request by calling 1-800-225-1581.