

Putnam VT Sustainable Leaders Fund

The fund's portfolio

9/30/21 (Unaudited)

COMMON STOCKS (99.7%)(a)

	Shares	Value
Banks (3.6%)		
Bank of America Corp.	467,404	\$19,841,300
First Republic Bank	80,642	15,554,229
		35,395,529
Beverages (1.5%)		
Heineken NV (Netherlands)	127,088	13,211,141
Zevia PBC Class A(NON)	184,600	2,124,746
		15,335,887
Biotechnology (3.8%)		
Amgen, Inc.	55,900	11,887,135
Ginkgo Bioworks Holdings, Inc.(NON)	904,307	10,480,918
Regeneron Pharmaceuticals, Inc.(NON)	13,300	8,048,894
Vertex Pharmaceuticals, Inc.(NON)	37,800	6,856,542
		37,273,489
Building products (1.9%)		
Johnson Controls International PLC	275,200	18,735,616
		18,735,616
Capital markets (3.0%)		
BlackRock, Inc.	20,647	17,315,813
KKR & Co., Inc. Class A	197,600	12,029,888
		29,345,701
Chemicals (5.1%)		
Ecolab, Inc.	46,200	9,638,244
Koninklijke DSM NV (Netherlands)	66,694	13,330,719
Linde PLC	55,600	16,311,928
Novozymes A/S Class B (Denmark)	167,075	11,438,405
		50,719,296
Commercial services and supplies (1.6%)		
GFL Environmental, Inc. (Canada)(S)	421,842	15,671,430
		15,671,430

Containers and packaging (2.4%)		
Avery Dennison Corp.	57,800	11,976,738
Ball Corp.	129,300	11,633,121
		23,609,859
Electric utilities (1.3%)		
NextEra Energy, Inc.	170,700	13,403,364
		13,403,364
Entertainment (1.5%)		
Walt Disney Co. (The) ^(NON)	85,900	14,531,703
		14,531,703
Equity real estate investment trusts (REITs) (1.7%)		
American Tower Corp. ^(R)	39,500	10,483,695
Boston Properties, Inc. ^(R)	58,900	6,381,815
		16,865,510
Food and staples retail (1.7%)		
Walmart, Inc.	122,900	17,129,802
		17,129,802
Food products (0.8%)		
McCormick & Co., Inc. (non-voting shares)	92,100	7,462,863
		7,462,863
Health-care equipment and supplies (5.7%)		
Cooper Cos., Inc. (The)	36,000	14,879,160
Danaher Corp.	88,300	26,882,052
Medtronic PLC	122,000	15,292,700
		57,053,912
Health-care providers and services (1.4%)		
CVS Health Corp.	165,600	14,052,816
		14,052,816
Hotels, restaurants, and leisure (4.5%)		
Chipotle Mexican Grill, Inc. ^(NON)	10,700	19,447,464
Hilton Worldwide Holdings, Inc. ^(NON)	123,499	16,315,453
Vail Resorts, Inc. ^(NON)	26,200	8,752,110
		44,515,027
Household durables (—%)		
HC Brillant Services GmbH (acquired 8/2/13, cost \$15) (Private) (Germany) ^{(NON)(F)(RES)}	22	—
		—

Independent power and renewable electricity producers (1.3%)		
AES Corp. (The)	552,800	12,620,424
		12,620,424
Industrial conglomerates (2.7%)		
Honeywell International, Inc.	68,818	14,608,685
Roper Technologies, Inc.	28,300	12,625,479
		27,234,164
Insurance (2.9%)		
AXA SA (France)	546,096	15,192,383
Prudential PLC (United Kingdom)	677,822	13,158,331
		28,350,714
Interactive media and services (0.6%)		
Bumble, Inc. Class A ^{(NON)(S)}	111,300	5,562,774
		5,562,774
Internet and direct marketing retail (5.8%)		
Amazon.com, Inc. ^(NON)	14,995	49,259,175
Etsy, Inc. ^(NON)	38,851	8,079,454
		57,338,629
IT Services (4.8%)		
Fidelity National Information Services, Inc.	106,400	12,946,752
PayPal Holdings, Inc. ^(NON)	18,900	4,917,969
Shopify, Inc. Class A (Canada) ^(NON)	6,200	8,405,836
Visa, Inc. Class A	95,700	21,317,175
		47,587,732
Leisure products (0.4%)		
Hasbro, Inc.	44,600	3,979,212
		3,979,212
Life sciences tools and services (2.3%)		
Thermo Fisher Scientific, Inc.	40,000	22,853,200
		22,853,200
Machinery (1.6%)		
Deere & Co.	28,600	9,583,002
Stanley Black & Decker, Inc.	35,500	6,223,505
		15,806,507
Multi-utilities (0.7%)		
Ameren Corp.	83,400	6,755,400

		6,755,400
Multiline retail (1.7%)		
Target Corp.	74,800	17,111,996
		17,111,996
Personal products (1.1%)		
Unilever PLC (United Kingdom)	193,880	10,457,389
		10,457,389
Pharmaceuticals (2.7%)		
Eli Lilly and Co.	80,300	18,553,315
Merck & Co., Inc.	110,700	8,314,677
		26,867,992
Road and rail (1.5%)		
Union Pacific Corp.	78,000	15,288,780
		15,288,780
Semiconductors and semiconductor equipment (6.5%)		
Applied Materials, Inc.	82,400	10,607,352
ASML Holding NV (NY Reg Shares) (Netherlands)	23,100	17,212,041
NVIDIA Corp.	73,200	15,164,112
NXP Semiconductors NV	44,100	8,637,867
Texas Instruments, Inc.	67,600	12,993,396
		64,614,768
Software (12.6%)		
Adobe, Inc. <i>(NON)</i>	46,800	26,943,696
DocuSign, Inc. <i>(NON)</i>	45,200	11,635,836
Intuit, Inc.	19,400	10,466,494
Microsoft Corp.	275,600	77,697,152
		126,743,178
Specialty retail (1.4%)		
Home Depot, Inc. (The)	43,100	14,148,006
		14,148,006
Technology hardware, storage, and peripherals (6.9%)		
Apple, Inc.	486,288	68,809,752
		68,809,752
Textiles, apparel, and luxury goods (0.7%)		
Levi Strauss & Co. Class A	288,070	7,060,596
		7,060,596
Total common stocks (cost \$619,435,575)		\$990,293,017

U.S. TREASURY OBLIGATIONS (—%)(^a)

	Principal amount	Value
U.S. Treasury Notes 1.875%, 6/30/26(ⁱ)	\$106,000	\$111,103
Total U.S. treasury obligations (cost \$111,103)		\$111,103

WARRANTS (—%)(^a)(NON)

	Expiration date	Strike Price	Warrants	Value
Palisade Bio, Inc. Ser. K, (acquired 4/20/17, cost \$—)(^{RES})	1/9/22	\$946.40	11,244	\$—
Total warrants (cost \$—)				\$—

SHORT-TERM INVESTMENTS (2.3%)(^a)

	Shares	Value
Putnam Cash Collateral Pool, LLC 0.09%(^{AFF})	19,869,600	\$19,869,600
Putnam Short Term Investment Fund Class P 0.08%(^{AFF})	3,100,747	3,100,747
State Street Institutional U.S. Government Money Market Fund, Premier Class 0.03%(^P)	330,000	330,000
Total short-term investments (cost \$23,300,347)		\$23,300,347

TOTAL INVESTMENTS

Total investments (cost \$642,847,025)		\$1,013,704,467
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FORWARD CURRENCY CONTRACTS at 9/30/21 (aggregate face value \$23,932,632) (Unaudited)

Counterparty	Currency	Contract type*	Delivery date	Value	Aggregate face value	Unrealized appreciation/ (depreciation)
Bank of America N.A.						
	British Pound	Sell	12/15/21	\$2,489,306	\$2,555,929	\$66,623
Barclays Bank PLC						
	British Pound	Sell	12/15/21	628,357	645,169	16,812
HSBC Bank USA, National Association						
	British Pound	Sell	12/15/21	393,211	403,737	10,526
JPMorgan Chase Bank N.A.						
	Euro	Sell	12/15/21	9,454,871	9,684,023	229,152
State Street Bank and Trust Co.						
	Euro	Sell	12/15/21	2,627,778	2,691,345	63,567
UBS AG						
	Euro	Sell	12/15/21	7,764,774	7,952,429	187,655
Unrealized appreciation						574,335
Unrealized (depreciation)						—
Total						\$574,335

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

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, 2021 through September 30, 2021 (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, references to "the SEC" represent the Securities and Exchange Commission, references to "ASC 820" represent Accounting Standards Codification 820 *Fair Value Measurements and Disclosures* and references to "OTC", if any, represent over-the-counter.

(a) Percentages indicated are based on net assets of \$992,856,452

(NON) This security is non-income-producing.

(RES) This security is restricted with regard to public resale. The total fair value of this security and any other restricted securities (excluding 144A securities), if any, held at the close of the reporting period was \$—.

(AFF) Affiliated company. For investments in Putnam Cash Collateral Pool, LLC and Putnam Short Term Investment Fund, the rate quoted in the security description is the annualized 7-day yield of the fund at the close of the reporting period. Transactions during the period with any company which is under common ownership or control were as follows:

Name of affiliate	Fair value as of 12/31/20	Purchase cost	Sale proceeds	Investment income	Shares outstanding and fair value as of 9/30/21
Short-term investments					
Putnam Cash Collateral Pool, LLC*#	\$22,079,510	\$128,870,413	\$131,080,323	\$15,808	\$19,869,600
Putnam Short Term Investment Fund**	11,711,756	111,061,177	119,672,186	10,996	3,100,747
Total Short-term investments	\$33,791,266	\$239,931,590	\$250,752,509	\$26,804	\$22,970,347

* 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. The fund receives cash collateral, which 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 and there were no realized or unrealized gains or losses during the period.

At the close of the reporting period, the fund received cash collateral of \$19,869,600 for securities loaned. The rate quoted in the security description is the annualized 7-day yield at the close of the reporting period. At the close of the reporting period, the value of securities loaned amounted to \$19,342,898.

** 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.

(F) This security is valued by Putnam Management at fair value following procedures approved by the Trustees. Securities are classified as Level 3 for ASC 820 based on the securities' valuation inputs. At the close of the reporting period, fair value pricing was also used for certain foreign securities in the portfolio.

(i) This security was pledged, or purchased with cash that was pledged, to the fund for collateral on certain derivative contracts.

(P) This security was pledged, or purchased with cash that was pledged, to the fund for collateral on certain derivative contracts. 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.

(S) This security is on loan, in part or in entirety, at the close of the reporting period.

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

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 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 Depositary 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. At the close of the reporting period, fair value pricing was used for certain foreign securities in the portfolio. 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.

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 were 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.

For the fund's average contract amount on forward currency contracts, see the appropriate table at the end of these footnotes.

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 posted 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 did not have a net liability position on open derivative contracts subject to the Master Agreements.

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:

	Valuation inputs		
Investments in securities:	Level 1	Level 2	Level 3
Common stocks*:			
Communication services	\$20,094,477	\$—	\$—
Consumer discretionary	144,153,466	—	—**
Consumer staples	26,717,411	23,668,530	—
Financials	64,741,230	28,350,714	—
Health care	158,101,409	—	—
Industrials	92,736,497	—	—
Information technology	307,755,430	—	—
Materials	49,560,031	24,769,124	—
Real estate	16,865,510	—	—
Utilities	32,779,188	—	—
Total common stocks	913,504,649	76,788,368	—
U.S. treasury obligations	—	111,103	—
Warrants	—	—	—
Short-term investments	330,000	22,970,347	—
Totals by level	\$913,834,649	\$99,869,818	\$—

	Valuation inputs		
Other financial instruments:	Level 1	Level 2	Level 3
Forward currency contracts	\$—	\$574,335	\$—

Totals by level

\$—

\$574,335

\$—

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

**Value of Level 3 security is \$—.

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

Forward currency contracts (contract amount)	\$23,900,000
Warrants (number of warrants)	11,000

For additional information regarding the fund please see the fund's most recent annual or semiannual shareholder report filed on the Securities and Exchange Commission's Web site, www.sec.gov, or visit Putnam's Individual Investor Web site at www.putnaminvestments.com