

Putnam VT Large Cap Value Fund

The fund's portfolio

3/31/24 (Unaudited)

COMMON STOCKS (96.3%)(a)

	Shares	Value
Aerospace and defense (2.9%)		
Northrop Grumman Corp.	57,718	\$27,627,298
RTX Corp.	270,262	26,358,653
		<u>53,985,951</u>
Air freight and logistics (1.9%)		
FedEx Corp.	122,380	35,458,381
		<u>35,458,381</u>
Automobiles (1.9%)		
General Motors Co.	783,392	35,526,827
		<u>35,526,827</u>
Banks (8.1%)		
Bank of America Corp.	1,247,763	47,315,173
Citigroup, Inc.	853,835	53,996,525
JPMorgan Chase & Co.	113,087	22,651,326
PNC Financial Services Group, Inc. (The)	171,743	27,753,669
		<u>151,716,693</u>
Beverages (2.4%)		
Coca-Cola Co. (The)	731,919	44,778,804
		<u>44,778,804</u>
Biotechnology (3.7%)		
AbbVie, Inc.	150,382	27,384,562
Regeneron Pharmaceuticals, Inc. (NON)	42,957	41,345,683
		<u>68,730,245</u>
Building products (1.0%)		
Johnson Controls International PLC	286,035	18,683,806
		<u>18,683,806</u>
Capital markets (4.2%)		
Charles Schwab Corp. (The)	440,927	31,896,659
Goldman Sachs Group, Inc. (The)	90,134	37,648,070

State Street Corp.	113,326	8,762,366
		<u>78,307,095</u>
Chemicals (4.2%)		
Corteva, Inc.	474,716	27,376,872
DuPont de Nemours, Inc.	247,861	19,003,503
Eastman Chemical Co.	134,023	13,431,785
PPG Industries, Inc.	128,759	18,657,179
		<u>78,469,339</u>
Commercial services and supplies (0.1%)		
Veralto Corp.	24,907	2,208,255
		<u>2,208,255</u>
Construction materials (1.4%)		
CRH PLC (Ireland)	311,640	26,882,066
		<u>26,882,066</u>
Consumer finance (1.2%)		
Capital One Financial Corp.	154,729	23,037,601
		<u>23,037,601</u>
Consumer staples distribution and retail (4.4%)		
BJ's Wholesale Club Holdings, Inc. ^(NON)	154,425	11,682,251
Target Corp.	140,140	24,834,209
Walmart, Inc.	774,231	46,585,479
		<u>83,101,939</u>
Containers and packaging (0.7%)		
Ball Corp.	189,423	12,759,533
		<u>12,759,533</u>
Electric utilities (4.2%)		
Constellation Energy Corp.	152,238	28,141,194
Exelon Corp.	420,321	15,791,460
NRG Energy, Inc.	528,277	35,759,070
		<u>79,691,724</u>
Electronic equipment, instruments, and components (0.8%)		
Vontier Corp.	314,236	14,253,745
		<u>14,253,745</u>
Financial services (1.2%)		
Apollo Global Management, Inc. ^(S)	202,908	22,817,005
		<u>22,817,005</u>

Health care equipment and supplies (1.1%)

Boston Scientific Corp. ^(NON)	300,627	20,589,943
		<hr/>
		20,589,943

Health care providers and services (4.8%)

Cigna Group (The)	87,114	31,638,934
McKesson Corp.	75,936	40,766,242
UnitedHealth Group, Inc.	36,781	18,195,561
		<hr/>
		90,600,737

Hotels, restaurants, and leisure (1.3%)

Hilton Worldwide Holdings, Inc.	111,067	23,691,702
		<hr/>
		23,691,702

Household durables (3.0%)

PulteGroup, Inc.	460,737	55,574,097
		<hr/>
		55,574,097

Household products (2.2%)

Procter & Gamble Co. (The)	260,186	42,215,179
		<hr/>
		42,215,179

Industrial conglomerates (1.0%)

Honeywell International, Inc.	94,781	19,453,800
		<hr/>
		19,453,800

Insurance (2.7%)

American International Group, Inc.	328,394	25,670,559
AXA SA (France)	648,094	24,342,514
		<hr/>
		50,013,073

Life sciences tools and services (1.7%)

Thermo Fisher Scientific, Inc.	55,360	32,175,786
		<hr/>
		32,175,786

Machinery (1.5%)

Ingersoll Rand, Inc.	296,070	28,111,847
		<hr/>
		28,111,847

Media (1.6%)

Charter Communications, Inc. Class A ^(NON)	51,624	15,003,483
Comcast Corp. Class A	337,069	14,611,941
		<hr/>
		29,615,424

Metals and mining (1.7%)		
Freeport-McMoRan, Inc.	688,144	32,356,531
		<u>32,356,531</u>
Multi-utilities (1.0%)		
Ameren Corp.	250,474	18,525,057
		<u>18,525,057</u>
Office REITs (0.7%)		
Vornado Realty Trust ^(R)	466,563	13,423,018
		<u>13,423,018</u>
Oil, gas, and consumable fuels (7.6%)		
ConocoPhillips	235,979	30,035,407
Exxon Mobil Corp.	514,495	59,804,899
Shell PLC (Euronext Amsterdam Exchange) (United Kingdom)	763,588	25,500,631
Valero Energy Corp.	156,593	26,728,859
		<u>142,069,796</u>
Passenger airlines (0.8%)		
Southwest Airlines Co.	541,070	15,793,833
		<u>15,793,833</u>
Personal care products (0.4%)		
Kenvue, Inc.	322,280	6,916,129
		<u>6,916,129</u>
Pharmaceuticals (4.1%)		
AstraZeneca PLC ADR (United Kingdom)	366,982	24,863,031
Merck & Co., Inc.	265,747	35,065,317
Sanofi SA (France)	167,609	16,447,838
		<u>76,376,186</u>
Semiconductors and semiconductor equipment (3.1%)		
NXP Semiconductors NV	66,591	16,499,252
Qualcomm, Inc.	250,973	42,489,729
		<u>58,988,981</u>
Software (5.2%)		
Microsoft Corp.	127,773	53,756,657
Oracle Corp.	350,335	44,005,579
		<u>97,762,236</u>
Specialized REITs (1.4%)		

American Tower Corp. ^(R)	47,176	9,321,506
Gaming and Leisure Properties, Inc. ^(R)	363,879	16,763,906
		26,085,412
Specialty retail (1.1%)		
O'Reilly Automotive, Inc. ^(NON)	17,712	19,994,723
		19,994,723
Tobacco (1.4%)		
Philip Morris International, Inc.	279,722	25,628,130
		25,628,130
Trading companies and distributors (1.2%)		
United Rentals, Inc.	30,703	22,140,240
		22,140,240
Wireless telecommunication services (1.4%)		
T-Mobile US, Inc.	161,631	26,381,410
		26,381,410
Total common stocks (cost \$1,092,880,010)		\$1,804,892,279

SHORT-TERM INVESTMENTS (4.2%)^(a)

		Principal amount/shares	Value
Putnam Cash Collateral Pool, LLC 5.57% ^(AFF)	Shares	14,337,600	\$14,337,600
Putnam Short Term Investment Fund Class P 5.50% ^(AFF)	Shares	62,357,403	62,357,403
State Street Institutional U.S. Government Money Market Fund, Premier Class 5.26% ^(P)	Shares	260,000	260,000
U.S. Treasury Bills 5.377%, 6/25/24		\$900,000	889,010
Total short-term investments (cost \$77,843,921)			\$77,844,013
TOTAL INVESTMENTS			
Total investments (cost \$1,170,723,931)			\$1,882,736,292

FORWARD CURRENCY CONTRACTS at 3/31/24 (aggregate face value \$103,832,900) (Unaudited)

Counterparty	Currency	Contract type*	Delivery date	Value	Aggregate face value	Unrealized appreciation/ (depreciation)
Bank of America N.A.						
	British Pound	Sell	6/20/24	\$2,609,689	\$2,624,133	\$14,444
	Euro	Sell	6/20/24	3,765,709	3,791,315	25,606
Barclays Bank PLC						
	British Pound	Sell	6/20/24	11,221,737	11,284,942	63,205
Goldman Sachs International						
	British Pound	Sell	6/20/24	16,370,278	16,461,277	90,999
	Euro	Sell	6/20/24	2,204,555	2,219,352	14,797
HSBC Bank USA, National Association						
	British Pound	Sell	6/20/24	6,071,807	6,105,082	33,275
JPMorgan Chase Bank N.A.						
	Euro	Sell	6/20/24	4,449,587	4,479,627	30,040
Morgan Stanley & Co. International PLC						
	Euro	Sell	6/20/24	27,995,255	28,198,680	203,425
State Street Bank and Trust Co.						
	British Pound	Sell	6/20/24	5,166,345	5,195,473	29,128
	Euro	Sell	6/20/24	8,481,640	8,538,223	56,583
UBS AG						
	Euro	Sell	6/20/24	14,833,723	14,934,796	101,073
Unrealized appreciation						662,575
Unrealized (depreciation)						—
Total						\$662,575

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

Key to holding's abbreviations

ADR American Depository Receipts: Represents ownership of foreign securities on deposit with a custodian bank.

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, 2024 through March 31, 2024 (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 Franklin Resources, Inc., 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 \$1,875,114,539.

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

(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 12/31/23	Purchase cost	Sale proceeds	Investment income	Shares outstanding and fair value as of 3/31/24
Short-term investments					
Putnam Cash Collateral Pool, LLC*#	\$28,898,375	\$130,279,898	\$144,840,673	\$522,569	\$14,337,600
Putnam Short Term Investment Fund Class P‡	20,975,428	205,178,981	163,797,006	528,365	62,357,403
Total Short-term investments	\$49,873,803	\$335,458,879	\$308,637,679	\$1,050,934	\$76,695,003

* 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 \$14,337,600 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 \$13,898,820.

‡ 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.

(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.

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.

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 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, which has been designated as valuation designee pursuant to Rule 2a-5 under the Investment Company Act of 1940, 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 for hedging 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	\$55,996,834	\$—	\$—
Consumer discretionary	134,787,349	—	—
Consumer staples	202,640,181	—	—
Energy	142,069,796	—	—
Financials	325,891,467	—	—
Health care	288,472,897	—	—
Industrials	195,836,113	—	—
Information technology	171,004,962	—	—
Materials	150,467,469	—	—
Real estate	39,508,430	—	—
Utilities	98,216,781	—	—
	<hr/>	<hr/>	<hr/>
Total common stocks	1,804,892,279	—	—
Short-term investments	260,000	77,584,013	—
	<hr/>	<hr/>	<hr/>
Totals by level	\$1,805,152,279	\$77,584,013	\$—

Valuation inputs

Other financial instruments:	Level 1	Level 2	Level 3
Forward currency contracts	\$—	\$662,575	\$—
	<hr/>	<hr/>	<hr/>
Totals by level	\$—	\$662,575	\$—

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

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)	\$102,300,000
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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.putnam.com