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# Putnam Variable Trust

**Semiannual report**

**6 | 30 | 18**

**Putnam VT  
Multi-Cap Core Fund**

Prior to June 30, 2018, the fund was known as Putnam VT Investors Fund.

# Message from the Trustees

August 9, 2018

Dear Shareholder:

During the first half of 2018, conditions became more challenging for global financial markets. After an extended period of record advances and low volatility, a downturn early in the year pushed stocks into a brief correction. The market has since rallied, but both stocks and bonds have been more volatile, due in part to uncertainty surrounding trade policy and interest rates. Fortunately, navigating a change in market trends is nothing new to Putnam's experienced investment professionals, who continue to monitor risks and seek opportunities.

We would like to take this opportunity to extend our thanks to Jameson A. Baxter, who retired from her position as Chair of your Board of Trustees on June 30, 2018. It is hard to express in a few words the extent of Jamie's commitment to protecting the interests of Putnam shareholders like you. In addition to her professional and directorship experience, Jamie brought intelligence, insight, and compassion to a board she served for decades. Jamie began as a Trustee in 1994, served as Vice Chair for six years, and became Chair in 2011. We are also pleased to announce the appointment of Kenneth R. Leibler as your new Board of Trustees Chair. Ken became a Trustee in 2006, has served as Vice Chair since 2016, and now leads the Board in overseeing your fund and protecting your interests.

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

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*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.*

**Consider these risks before investing:** Investments in small and/or midsize companies increase the risk of greater price fluctuations. Growth stocks may be more susceptible to earnings disappointments, and value stocks may fail to rebound. Stock prices may fall or fail to rise over time for several reasons, including general financial market conditions, changing market perceptions, changes in government intervention in the financial markets, and factors related to a specific issuer or industry. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings. You can lose money by investing in the fund.

## Performance summary (as of 6/30/18)

### Investment objective

Capital appreciation

**Net asset value** June 30, 2018

**Class IA: \$18.66**

**Class IB: \$18.60**

### Total return at net asset value

(as of 6/30/18)	Class IA shares*	Class IB shares*	Russell 3000 Index†	S&P 500 Index†
6 months	2.01%	1.90%	3.22%	2.65%
1 year	16.64	16.38	14.78	14.37
5 years	87.20	84.95	86.66	87.70
Annualized	13.36	13.09	13.29	13.42
10 years	169.09	162.63	164.83	163.40
Annualized	10.41	10.14	10.23	10.17
Life	177.00	164.29	277.14	257.94
Annualized	5.18	4.94	6.80	6.53

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

\* Class inception date: April 30, 1998.

Prior to June 30, 2018, the fund was known as Putnam VT Investors Fund.

† Effective June 30, 2018, the Russell 3000 Index replaced the S&P 500 Index as the fund's benchmark. In Putnam Management's opinion, the securities tracked by the Russell 3000 Index more accurately reflect the types of securities that generally will be held by the fund.

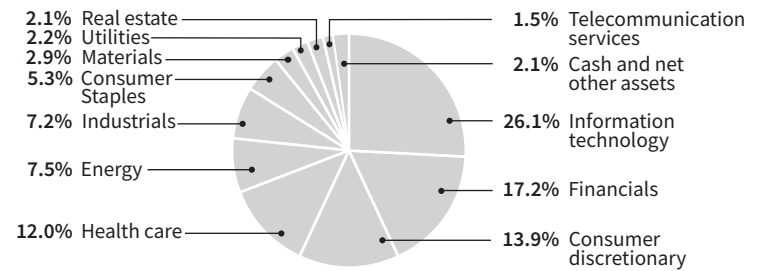
The Russell 3000 Index is an unmanaged index of the 3,000 largest U.S. companies.

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

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**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. 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.

## 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 1/1/18 to 6/30/18. 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 12/31/17	0.68%	0.93%
Annualized expense ratio for the six-month period ended 6/30/18	0.69%	0.94%

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.

### Expenses per \$1,000

	Expenses and value for a \$1,000 investment, assuming actual returns for the 6 months ended 6/30/18		Expenses and value for a \$1,000 investment, assuming a hypothetical 5% annualized return for the 6 months ended 6/30/18	
	Class IA	Class IB	Class IA	Class IB
Expenses paid per \$1,000*†	\$3.46	\$4.71	\$3.46	\$4.71
Ending value (after expenses)	\$1,020.10	\$1,019.00	\$1,021.37	\$1,020.13

\*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 6/30/18. 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; and then dividing that result by the number of days in the year. 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; and then dividing that result by the number of days in the year.

## Your fund's managers



Portfolio Manager **Gerard P. Sullivan** joined Putnam in 2008 and has been in the investment industry since 1982.

Assistant Portfolio Manager **Arthur Yeager** joined Putnam in 2017 and has been in the investment industry since 1984.

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.

## The fund's portfolio 6/30/18 (Unaudited)

<b>COMMON STOCKS (95.8%)*</b>	<b>Shares</b>	<b>Value</b>
<b>Aerospace and defense (1.9%)</b>		
Boeing Co. (The)	12,400	\$4,160,324
General Dynamics Corp.	4,900	913,409
		<b>5,073,733</b>
<b>Air freight and logistics (0.5%)</b>		
FedEx Corp.	5,735	1,302,189
		<b>1,302,189</b>
<b>Airlines (1.1%)</b>		
Air Canada (Canada) †	35,100	567,356
Delta Air Lines, Inc.	14,900	738,146
Southwest Airlines Co.	30,700	1,562,016
		<b>2,867,518</b>
<b>Auto components (1.2%)</b>		
Lear Corp.	9,100	1,690,871
Magna International, Inc. (Canada)	5,600	428,176
Pirelli & C SpA (Italy) †	134,431	1,121,211
		<b>3,240,258</b>
<b>Automobiles (0.6%)</b>		
General Motors Co.	39,700	1,564,180
		<b>1,564,180</b>
<b>Banks (7.2%)</b>		
Bank of America Corp.	214,342	6,042,301
Citigroup, Inc.	66,857	4,474,070
JPMorgan Chase & Co.	76,327	7,953,273
SunTrust Banks, Inc.	20,600	1,360,012
		<b>19,829,656</b>
<b>Beverages (1.4%)</b>		
Coca-Cola Co. (The)	17,800	780,708
Molson Coors Brewing Co. Class B	9,435	641,957
PepsiCo, Inc.	21,620	2,353,769
		<b>3,776,434</b>
<b>Biotechnology (2.9%)</b>		
Amgen, Inc.	20,295	3,746,254
Biogen, Inc. †	6,500	1,886,560
Gilead Sciences, Inc.	31,400	2,224,376
		<b>7,857,190</b>
<b>Building products (0.2%)</b>		
Griffon Corp.	30,100	535,780
		<b>535,780</b>
<b>Capital markets (5.1%)</b>		
Ameriprise Financial, Inc.	13,100	1,832,428
Bank of New York Mellon Corp. (The)	17,300	932,989
Goldman Sachs Group, Inc. (The)	17,220	3,798,215
Invesco, Ltd.	23,892	634,572
KKR & Co., Inc.	65,200	1,620,220
Morgan Stanley	61,300	2,905,620
Raymond James Financial, Inc.	4,500	402,075
State Street Corp.	17,300	1,610,457
		<b>13,736,576</b>
<b>Chemicals (1.7%)</b>		
CF Industries Holdings, Inc.	39,200	1,740,480
DowDuPont, Inc.	25,887	1,706,471
Eastman Chemical Co.	4,100	409,836
LyondellBasell Industries NV Class A	5,500	604,175
Orion Engineered Carbons SA (Luxembourg)	9,100	280,735
		<b>4,741,697</b>
<b>Commercial services and supplies (—%)</b>		
New Bigfoot Other Assets GmbH (acquired 8/2/13, cost \$4) (Private) (Germany) † ΔΔ <sup>F</sup>	3	3
New Middle East Other Assets GmbH (acquired 8/2/13, cost \$1) (Private) (Germany) † ΔΔ <sup>F</sup>	1	1
		<b>4</b>

<b>COMMON STOCKS (95.8%)* cont.</b>	<b>Shares</b>	<b>Value</b>
<b>Communications equipment (1.9%)</b>		
Cisco Systems, Inc.	119,141	\$5,126,637
		<b>5,126,637</b>
<b>Consumer finance (0.7%)</b>		
Capital One Financial Corp.	21,100	1,939,090
		<b>1,939,090</b>
<b>Diversified financial services (2.9%)</b>		
Alignvest Acquisition II Corp. Class A (Canada) †	68,053	504,710
Berkshire Hathaway, Inc. Class B †	15,400	2,874,410
Capitol Investment Corp. IV (Units) †	43,141	444,352
Easterly Acquisition Corp. †	93,320	961,196
Federal Street Acquisition Corp. (Units) †	68,000	686,800
Gores Holdings II, Inc. (Units) †	33,354	355,220
Haymaker Acquisition Corp. (Units) †	39,514	395,140
J2 Acquisition, Ltd. (British Virgin Islands) †	77,798	759,308
TPG Pace Holdings Corp. (Units) †	92,438	961,355
		<b>7,942,491</b>
<b>Diversified telecommunication services (1.4%)</b>		
AT&T, Inc.	85,372	2,741,295
Verizon Communications, Inc.	19,800	996,138
		<b>3,737,433</b>
<b>Electric utilities (1.8%)</b>		
Entergy Corp.	20,600	1,664,274
Exelon Corp.	43,900	1,870,140
FirstEnergy Corp.	35,000	1,256,850
		<b>4,791,264</b>
<b>Electrical equipment (0.6%)</b>		
Emerson Electric Co.	23,200	1,604,048
		<b>1,604,048</b>
<b>Electronic equipment, instruments, and components (0.1%)</b>		
Jabil, Inc.	9,300	257,238
		<b>257,238</b>
<b>Equity real estate investment trusts (REITs) (1.1%)</b>		
American Tower Corp.	3,351	483,114
Armada Hoffer Properties, Inc.	75,724	1,128,288
Easterly Government Properties, Inc. <sup>S</sup>	76,128	1,504,289
		<b>3,115,691</b>
<b>Food and staples retail (3.1%)</b>		
Costco Wholesale Corp.	5,500	1,149,390
Kroger Co. (The)	57,800	1,644,410
US Foods Holding Corp. †	9,900	374,418
Walgreens Boots Alliance, Inc.	20,928	1,255,994
Walmart, Inc.	46,200	3,957,030
		<b>8,381,242</b>
<b>Food products (0.1%)</b>		
Nomad Foods, Ltd. (United Kingdom) †	15,600	299,364
		<b>299,364</b>
<b>Health-care equipment and supplies (1.8%)</b>		
Baxter International, Inc.	34,700	2,562,248
Becton Dickinson and Co.	10,200	2,443,512
Neuronetics, Inc. †	457	12,161
		<b>5,017,921</b>
<b>Health-care providers and services (3.7%)</b>		
Anthem, Inc.	8,500	2,023,255
Cigna Corp.	7,400	1,257,630
CVS Health Corp. <sup>S</sup>	25,080	1,613,898
HCA Healthcare, Inc.	16,739	1,717,421
Humana, Inc.	6,800	2,023,884
McKesson Corp.	10,900	1,454,060
		<b>10,090,148</b>
<b>Hotels, restaurants, and leisure (2.2%)</b>		
Bloomin' Brands, Inc.	9,900	198,990
Hyatt Hotels Corp. Class A	11,800	910,370
Las Vegas Sands Corp.	21,900	1,672,284

<b>COMMON STOCKS (95.8%)* cont.</b>	<b>Shares</b>	<b>Value</b>
<b>Hotels, restaurants, and leisure cont.</b>		
Penn National Gaming, Inc. † <sup>S</sup>	39,538	\$1,328,081
Red Robin Gourmet Burgers, Inc. †	2,600	121,160
Wyndham Destinations, Inc.	14,200	628,634
Wyndham Hotels & Resorts, Inc.	14,200	835,386
Wynn Resorts, Ltd.	1,900	317,946
		<b>6,012,851</b>
<b>Household durables (0.7%)</b>		
HC Brillant Services GmbH (acquired 8/2/13, cost \$4) (Private) (Germany) † Δ Δ F	6	5
PulteGroup, Inc.	65,700	1,888,875
		<b>1,888,880</b>
<b>Household products (0.8%)</b>		
Energizer Holdings, Inc.	6,000	377,760
Kimberly-Clark Corp.	7,200	758,448
Procter & Gamble Co. (The)	15,000	1,170,900
		<b>2,307,108</b>
<b>Independent power and renewable electricity producers (0.6%)</b>		
NRG Energy, Inc.	51,600	1,584,120
		<b>1,584,120</b>
<b>Industrial conglomerates (0.2%)</b>		
General Electric Co.	32,000	435,520
		<b>435,520</b>
<b>Insurance (1.5%)</b>		
American International Group, Inc.	19,833	1,051,546
Assured Guaranty, Ltd.	29,400	1,050,462
Lincoln National Corp.	17,800	1,108,050
Prudential Financial, Inc.	8,900	832,239
		<b>4,042,297</b>
<b>Internet and direct marketing retail (1.8%)</b>		
Amazon.com, Inc. †	2,865	4,869,927
Global Fashion Group SA (acquired 8/2/13, cost \$219,415) (Private) (Luxembourg) † Δ Δ F	5,179	48,629
		<b>4,918,556</b>
<b>Internet software and services (5.3%)</b>		
Alphabet, Inc. Class A †	2,836	3,202,383
Alphabet, Inc. Class C †	4,218	4,705,812
Delivery Hero Holding GmbH (Germany) †	18,115	964,083
eBay, Inc. †	25,200	913,752
Facebook, Inc. Class A †	22,200	4,313,904
Yext, Inc. † <sup>S</sup>	11,900	230,146
		<b>14,330,080</b>
<b>IT Services (2.8%)</b>		
DXC Technology Co.	15,702	1,265,738
IBM Corp.	11,380	1,589,786
Mastercard, Inc. Class A	9,700	1,906,244
Visa, Inc. Class A	22,300	2,953,635
		<b>7,715,403</b>
<b>Machinery (1.0%)</b>		
Caterpillar, Inc.	21,000	2,849,070
		<b>2,849,070</b>
<b>Media (2.7%)</b>		
Comcast Corp. Class A	85,940	2,819,691
Discovery, Inc. Class A †	9,900	272,250
Live Nation Entertainment, Inc. †	32,900	1,597,953
Walt Disney Co. (The)	24,100	2,525,921
		<b>7,215,815</b>
<b>Metals and mining (1.2%)</b>		
Alcoa Corp. †	27,704	1,298,764
Freeport-McMoRan, Inc. (Indonesia)	109,000	1,881,340
		<b>3,180,104</b>
<b>Multiline retail (0.6%)</b>		
Target Corp.	23,100	1,758,372
		<b>1,758,372</b>

<b>COMMON STOCKS (95.8%)* cont.</b>	<b>Shares</b>	<b>Value</b>
<b>Oil, gas, and consumable fuels (7.0%)</b>		
Boardwalk Pipeline Partners LP	94,300	\$1,095,766
ConocoPhillips	41,700	2,903,154
Devon Energy Corp.	12,700	558,292
Encana Corp. (Canada)	67,900	886,095
Enterprise Products Partners LP	55,700	1,541,219
Exxon Mobil Corp.	17,405	1,439,916
Kimbell Royalty Partners LP	17,429	389,277
Marathon Oil Corp.	65,200	1,360,072
Plains GP Holdings LP Class A †	18,411	440,207
Royal Dutch Shell PLC ADR Class A (United Kingdom)	48,132	3,332,178
Suncor Energy, Inc. (Canada)	36,600	1,488,888
TOTAL SA ADR (France)	28,959	1,753,757
Valero Energy Corp.	17,900	1,983,857
		<b>19,172,678</b>
<b>Pharmaceuticals (3.2%)</b>		
Jazz Pharmaceuticals PLC †	9,356	1,612,039
Johnson & Johnson	30,030	3,643,840
Perrigo Co. PLC	3,600	262,476
Pfizer, Inc.	90,186	3,271,948
		<b>8,790,303</b>
<b>Real estate management and development (0.8%)</b>		
CBRE Group, Inc. Class A †	27,800	1,327,172
Kennedy-Wilson Holdings, Inc.	38,100	805,815
		<b>2,132,987</b>
<b>Road and rail (0.9%)</b>		
Norfolk Southern Corp.	10,800	1,629,396
USXpress Enterprises, Inc. Class A †	49,700	752,458
		<b>2,381,854</b>
<b>Semiconductors and semiconductor equipment (3.6%)</b>		
Applied Materials, Inc.	43,100	1,990,789
Intel Corp.	52,520	2,610,769
Lam Research Corp. <sup>S</sup>	12,800	2,212,480
Qualcomm, Inc.	6,700	376,004
Teradyne, Inc.	9,700	369,279
Texas Instruments, Inc.	19,500	2,149,875
		<b>9,709,196</b>
<b>Software (6.5%)</b>		
Adobe Systems, Inc. †	6,200	1,511,622
Dell Technologies, Inc. Class V †	14,073	1,190,294
Microsoft Corp.	130,450	12,863,678
Oracle Corp.	44,658	1,967,631
		<b>17,533,225</b>
<b>Specialty retail (3.6%)</b>		
Best Buy Co., Inc.	26,300	1,961,454
Children's Place, Inc. (The)	7,500	906,000
Gap, Inc. (The)	34,600	1,120,694
Home Depot, Inc. (The)	16,700	3,258,170
Lowe's Cos., Inc.	20,800	1,987,856
Michaels Cos., Inc. (The) †	29,500	565,515
		<b>9,799,689</b>
<b>Technology hardware, storage, and peripherals (4.7%)</b>		
Apple, Inc.	60,483	11,196,008
HP, Inc.	69,716	1,581,856
		<b>12,777,864</b>
<b>Textiles, apparel, and luxury goods (0.4%)</b>		
Hanesbrands, Inc. <sup>S</sup>	44,000	968,880
		<b>968,880</b>
<b>Thriffs and mortgage finance (0.1%)</b>		
Radian Group, Inc.	15,400	249,788
		<b>249,788</b>

<b>COMMON STOCKS (95.8%)* cont.</b>		<b>Shares</b>	<b>Value</b>		
<b>Trading companies and distributors (0.6%)</b>					
United Rentals, Inc. †		11,700	\$1,727,154		
			<b>1,727,154</b>		
<b>Total common stocks (cost \$191,683,975)</b>			<b>\$260,309,576</b>		
<b>INVESTMENT COMPANIES (0.7%)*</b>		<b>Shares</b>	<b>Value</b>		
Industrial Select Sector SPDR Fund		26,300	\$1,883,869		
<b>Total investment companies (cost \$1,916,208)</b>			<b>\$1,883,869</b>		
<b>CONVERTIBLE PREFERRED STOCKS (0.2%)*</b>		<b>Shares</b>	<b>Value</b>		
Becton Dickinson and Co. Ser. A, \$3.063 cv. pfd.		8,869	\$547,816		
<b>Total convertible preferred stocks (cost \$443,450)</b>			<b>\$547,816</b>		
<b>WARRANTS (—%)* †</b>		<b>Expiration date</b>	<b>Strike price</b>	<b>Warrants</b>	<b>Value</b>
Alignvest Acquisition II Corp. Class A (Canada)	7/4/22	CAD 11.50	36,476	\$14,983	
Easterly Acquisition Corp.	7/29/20	\$11.50	38,710	48,387	
J2 Acquisition, Ltd. (British Virgin Islands)	10/10/20	11.50	77,798	35,009	
<b>Total warrants (cost \$29,172)</b>				<b>\$98,379</b>	
<b>SHORT-TERM INVESTMENTS (5.0%)</b>		<b>Shares</b>	<b>Value</b>		
Putnam Cash Collateral Pool, LLC 2.16% <sup>d</sup>		7,632,420	\$7,632,420		
Putnam Short Term Investment Fund 2.04% <sup>L</sup>		5,937,205	5,937,205		
<b>Total short-term investments (cost \$13,569,625)</b>			<b>\$13,569,625</b>		
<b>Total investments (cost \$207,642,430)</b>			<b>\$276,409,265</b>		

#### Key to holding's currency abbreviations

CAD	Canadian Dollar
USD/\$	United States Dollar

#### Key to holding's abbreviations

ADR	American Depository Receipts: represents ownership of foreign securities on deposit with a custodian bank
SPDR	S&P Depository Receipts

#### 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, 2018 through June 30, 2018 (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 \$271,799,035.

† This security is non-income-producing.

ΔΔ 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 \$48,638, or less than 0.1% of net assets.

<sup>d</sup> Affiliated company. See Notes 1 and 5 to the financial statements regarding securities lending. The rate quoted in the security description is the annualized 7-day yield of the fund at the close of the reporting period.

<sup>F</sup> 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 (Note 1).

<sup>L</sup> 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.

<sup>S</sup> Security on loan, in part or in entirety, at the close of the reporting period (Note 1).

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*:			
Consumer discretionary	\$36,197,636	\$1,121,211	\$48,634
Consumer staples	14,764,148	—	—
Energy	19,172,678	—	—
Financials	47,739,898	—	—
Health care	31,755,562	—	—
Industrials	18,776,866	—	4
Information technology	66,485,560	964,083	—
Materials	7,921,801	—	—
Real estate	5,248,678	—	—
Telecommunication services	3,737,433	—	—
Utilities	6,375,384	—	—
<b>Total common stocks</b>	<b>258,175,644</b>	<b>2,085,294</b>	<b>48,638</b>
Convertible preferred stocks	—	547,816	—
Investment companies	1,883,869	—	—
Warrants	98,379	—	—
Short-term investments	5,937,205	7,632,420	—
<b>Totals by level</b>	<b>\$266,095,097</b>	<b>\$10,265,530</b>	<b>\$48,638</b>

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

During the reporting period, transfers within the fair value hierarchy, if any (other than certain transfers involving non-U.S. equity securities as described in Note 1), did not represent, in the aggregate, more than 1% of the fund's net assets measured as of the end of the period. Transfers are accounted for using the end of period pricing valuation method.

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

6/30/18 (Unaudited)

<b>Assets</b>	
Investment in securities, at value, including \$7,046,522 of securities on loan (Note 1):	
Unaffiliated issuers (identified cost \$194,072,805)	\$262,839,640
Affiliated issuers (identified cost \$13,569,625) (Notes 1 and 5)	13,569,625
Foreign currency (cost \$867) (Note 1)	877
Dividends, interest and other receivables	206,164
Receivable for shares of the fund sold	35,220
Receivable for investments sold	15,049,411
<b>Total assets</b>	<b>291,700,937</b>
<b>Liabilities</b>	
Payable for investments purchased	11,735,833
Payable for shares of the fund repurchased	145,715
Payable for compensation of Manager (Note 2)	125,649
Payable for custodian fees (Note 2)	8,049
Payable for investor servicing fees (Note 2)	23,820
Payable for Trustee compensation and expenses (Note 2)	135,990
Payable for administrative services (Note 2)	1,031
Payable for distribution fees (Note 2)	42,511
Collateral on securities loaned, at value (Note 1)	7,632,420
Other accrued expenses	50,884
<b>Total liabilities</b>	<b>19,901,902</b>
<b>Net assets</b>	<b>\$271,799,035</b>
<b>Represented by</b>	
Paid-in capital (Unlimited shares authorized) (Notes 1 and 4)	\$189,815,303
Undistributed net investment income (Note 1)	1,359,727
Accumulated net realized gain on investments and foreign currency transactions (Note 1)	11,857,368
Net unrealized appreciation of investments and assets and liabilities in foreign currencies	68,766,637
<b>Total — Representing net assets applicable to capital shares outstanding</b>	<b>\$271,799,035</b>
<b>Computation of net asset value Class IA</b>	
Net assets	\$68,242,688
Number of shares outstanding	3,656,188
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$18.66
<b>Computation of net asset value Class IB</b>	
Net assets	\$203,556,347
Number of shares outstanding	10,941,622
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$18.60

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

## Statement of operations

Six months ended 6/30/18 (Unaudited)

### Investment income

Dividends (net of foreign tax of \$16,685)	\$2,642,925
Interest (including interest income of \$31,098 from investments in affiliated issuers) (Note 5)	31,105
Securities lending (net of expenses) (Notes 1 and 5)	12,361
<b>Total investment income</b>	<b>2,686,391</b>

### Expenses

Compensation of Manager (Note 2)	765,797
Investor servicing fees (Note 2)	97,869
Custodian fees (Note 2)	8,051
Trustee compensation and expenses (Note 2)	7,753
Distribution fees (Note 2)	259,386
Administrative services (Note 2)	3,062
Other	70,160
<b>Total expenses</b>	<b>1,212,078</b>
Expense reduction (Note 2)	(8,415)
<b>Net expenses</b>	<b>1,203,663</b>
<b>Net investment income</b>	<b>1,482,728</b>

### Realized and unrealized gain (loss)

<b>Net realized gain (loss) on:</b>	
Securities from unaffiliated issuers (Notes 1 and 3)	13,414,948
Foreign currency transactions (Note 1)	(764)
<b>Total net realized gain</b>	<b>13,414,184</b>
<b>Change in net unrealized appreciation (depreciation) on:</b>	
Securities from unaffiliated issuers	(9,105,362)
Assets and liabilities in foreign currencies	(198)
<b>Total change in net unrealized depreciation</b>	<b>(9,105,560)</b>
<b>Net gain on investments</b>	<b>4,308,624</b>
<b>Net increase in net assets resulting from operations</b>	<b>\$5,791,352</b>

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

## Statement of changes in net assets

	Six months ended 6/30/18*	Year ended 12/31/17
<b>Increase (decrease) in net assets</b>		
<b>Operations:</b>		
Net investment income	\$1,482,728	\$3,334,974
Net realized gain on investments and foreign currency transactions	13,414,184	25,804,470
Net unrealized appreciation (depreciation) of investments and assets and liabilities in foreign currencies	(9,105,560)	27,203,327
<b>Net increase in net assets resulting from operations</b>	<b>5,791,352</b>	<b>56,342,771</b>
Distributions to shareholders (Note 1):		
From ordinary income		
Net investment income		
Class IA	(933,407)	(883,274)
Class IB	(2,249,923)	(2,232,563)
Net realized short-term gain on investments		
Class IA	(1,090,648)	—
Class IB	(3,231,167)	—
From net realized long-term gain on investments		
Class IA	(5,463,274)	(3,651,105)
Class IB	(16,185,572)	(10,958,880)
Increase in capital from settlement payments	—	15,066
Increase (decrease) from capital share transactions (Note 4)	10,501,371	(21,269,010)
<b>Total increase (decrease) in net assets</b>	<b>(12,861,268)</b>	<b>17,363,005</b>
<b>Net assets:</b>		
Beginning of period	284,660,303	267,297,298
<b>End of period</b> (including undistributed net investment income of \$1,359,727 and \$3,060,329, respectively)	<b>\$271,799,035</b>	<b>\$284,660,303</b>

\* Unaudited.

## 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) <sup>a</sup>	Net realized and unrealized gain (loss) on investments	Total from investment operations	From net investment income	From net realized gain on investments	Total distributions	Non-recurring reimbursements	Net asset value, end of period	Total return at net asset value (%) <sup>b,c</sup>	Net assets, end of period (in thousands)	Ratio of expenses to average net assets (%) <sup>b,d</sup>	Ratio of net investment income (loss) to average net assets (%)	Portfolio turnover (%)
<b>Class IA</b>														
6/30/18†	\$20.58	.12	.20	.32	(.28)	(1.96)	(2.24)	—	\$18.66	2.01*	\$68,243	.34*	.62*	13*
12/31/17	17.91	.26	3.68	3.94	(.25)	(1.02)	(1.27)	— <sup>e,f</sup>	20.58	23.14	71,088	.68	1.41	51
12/31/16	16.79	.25	1.71	1.96	(.26)	(.58)	(.84)	—	17.91	12.34	66,173	.69 <sup>g</sup>	1.52 <sup>g</sup>	50
12/31/15	17.37	.28	(.61)	(.33)	(.25)	—	(.25)	—	16.79	(1.96)	67,928	.69	1.60	47
12/31/14	15.43	.22	1.95	2.17	(.23)	—	(.23)	—	17.37	14.25	81,862	.72	1.39	50
12/31/13	11.59	.19	3.88	4.07	(.23)	—	(.23)	—	15.43	35.52	86,433	.73	1.39	83
<b>Class IB</b>														
6/30/18†	\$20.49	.10	.20	.30	(.23)	(1.96)	(2.19)	—	\$18.60	1.90*	\$203,556	.46*	.50*	13*
12/31/17	17.84	.22	3.66	3.88	(.21)	(1.02)	(1.23)	— <sup>e,f</sup>	20.49	22.86	213,573	.93	1.16	51
12/31/16	16.73	.22	1.69	1.91	(.22)	(.58)	(.80)	—	17.84	12.05	201,125	.94 <sup>g</sup>	1.37 <sup>g</sup>	50
12/31/15	17.30	.24	(.61)	(.37)	(.20)	—	(.20)	—	16.73	(2.18)	120,301	.94	1.39	47
12/31/14	15.37	.18	1.94	2.12	(.19)	—	(.19)	—	17.30	13.91	117,335	.97	1.14	50
12/31/13	11.55	.15	3.86	4.01	(.19)	—	(.19)	—	15.37	35.12	127,742	.98	1.15	83

\* Not annualized.

† Unaudited.

<sup>a</sup> Per share net investment income (loss) has been determined on the basis of the weighted average number of shares outstanding during the period.

<sup>b</sup> The charges and expenses at the insurance company separate account level are not reflected.

<sup>c</sup> Total return assumes dividend reinvestment.

<sup>d</sup> Includes amounts paid through expense offset and/or brokerage/service arrangements, if any (Note 2). Also excludes acquired fund fees and expenses, if any.

<sup>e</sup> Amount represents less than \$0.01 per share.

<sup>f</sup> Reflects a non-recurring reimbursement pursuant to a settlement between the Securities and Exchange Commission (the SEC) and Countrywide Financial which amounted to less than \$0.01 per share outstanding on November 29, 2017.

<sup>g</sup> Reflects a voluntary waiver of certain fund expenses in effect during the period. As a result of such waiver, the expenses of each class reflect a reduction of less than 0.01% as a percentage of average net assets.

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

## Notes to financial statements 6/30/18 (Unaudited)

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, 2018 through June 30, 2018.

Putnam VT Multi-Cap Core Fund (formerly Putnam VT Investors 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 capital appreciation. The fund invests mainly in common stocks (growth or value stocks or both) of U.S. companies of any size that Putnam Management believes have favorable investment potential. For example, the fund may purchase stocks of companies with stock prices that reflect a value lower than that which Putnam Management places on the company. Putnam Management may also consider other factors Putnam Management believes will cause the stock price to rise and may consider, among other factors, a company’s 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 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 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.

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. Short-term securities with remaining maturities of 60 days or less are valued using an independent pricing service approved by the Trustees, and are classified as Level 2 securities.

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.

**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, 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.

**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 received cash collateral of \$7,632,420 and the value of securities loaned amounted to \$7,471,682. Certain of these securities were sold prior to the close of the reporting period and are included in Receivable for investments sold on the Statement of assets and liabilities.

**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 \$317.5 million 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 LIBOR for the committed line of credit and the Federal Funds rate plus 1.30% for the uncommitted line of credit. A closing fee equal to 0.04% of the committed line of credit plus a \$25,000 flat fee 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 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.

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 aggregate identified cost on a tax basis is \$208,877,085, resulting in gross unrealized appreciation and depreciation of \$72,561,589 and \$5,029,409, respectively, or net unrealized appreciation of \$67,532,180.

**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. Dividend sources are estimated at the time of declaration. Actual results may vary. Any non-taxable return of capital cannot be determined until final tax calculations are completed after the end of the fund's fiscal year. 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.

**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 43.9% 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 0.274% of the fund's average net assets.

Putnam Management has contractually agreed, through April 30, 2020, 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 0.35% 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 fees 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	\$24,653
Class IB	73,216
<b>Total</b>	<b>\$97,869</b>

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. The fund also reduced expenses through brokerage/service arrangements. For the reporting period, the fund's expenses were reduced by \$167 under the expense offset arrangements and by \$8,248 under the brokerage/service arrangements.

Each Independent Trustee of the fund receives an annual Trustee fee, of which \$204, 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:

	<b>Cost of purchases</b>	<b>Proceeds from sales</b>
Investments in securities (Long-term)	\$34,429,040	\$57,156,633
U.S. government securities (Long-term)	—	—
<b>Total</b>	<b>\$34,429,040</b>	<b>\$57,156,633</b>

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:

	<b>Class IA shares</b>				<b>Class IB shares</b>			
	<b>Six months ended 6/30/18</b>		<b>Year ended 12/31/17</b>		<b>Six months ended 6/30/18</b>		<b>Year ended 12/31/17</b>	
	<b>Shares</b>	<b>Amount</b>	<b>Shares</b>	<b>Amount</b>	<b>Shares</b>	<b>Amount</b>	<b>Shares</b>	<b>Amount</b>
Shares sold	40,038	\$775,968	81,312	\$1,513,718	140,113	\$2,619,945	99,116	\$1,820,276
Shares issued in connection with reinvestment of distributions	418,520	7,487,329	256,324	4,534,379	1,214,499	21,666,662	747,814	13,191,443
	458,558	8,263,297	337,636	6,048,097	1,354,612	24,286,607	846,930	15,011,719
Shares repurchased	(257,399)	(5,105,261)	(577,741)	(10,723,625)	(838,225)	(16,943,272)	(1,694,331)	(31,605,201)
<b>Net increase (decrease)</b>	<b>201,159</b>	<b>\$3,158,036</b>	<b>(240,105)</b>	<b>\$(4,675,528)</b>	<b>516,387</b>	<b>\$7,343,335</b>	<b>(847,401)</b>	<b>\$(16,593,482)</b>

#### Note 5 — Affiliated transactions

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

<b>Name of affiliate</b>	<b>Fair value as of 12/31/17</b>	<b>Purchase cost</b>	<b>Sale proceeds</b>	<b>Investment income</b>	<b>Shares outstanding and fair value as of 6/30/18</b>
<b>Short-term investments</b>					
Putnam Cash Collateral Pool, LLC*	\$13,535,450	\$45,647,148	\$51,550,178	\$68,092	\$7,632,420
Putnam Short Term Investment Fund**	297,858	26,728,923	21,089,576	31,098	5,937,205
<b>Total Short-term investments</b>	<b>\$13,833,308</b>	<b>\$72,376,071</b>	<b>\$72,639,754</b>	<b>\$99,190</b>	<b>\$13,569,625</b>

\*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.

**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:

Warrants (number of warrants)	160,000
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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
Equity contracts	Investments	\$98,379	Payables	\$—
<b>Total</b>		<b>\$98,379</b>		<b>\$—</b>

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	Warrants	Total
Equity contracts	\$14,367	\$14,367
<b>Total</b>	<b>\$14,367</b>	<b>\$14,367</b>

**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	Warrants	Total
Equity contracts	\$634	\$634
<b>Total</b>	<b>\$634</b>	<b>\$634</b>



## Trustee approval of management contract

### General conclusions

The Board of Trustees of The Putnam Funds oversees the management of each fund and, as required by law, determines annually whether to approve the continuance of your fund's management contract with Putnam Investment Management, LLC ("Putnam Management") and the sub-management contract with respect to your fund between Putnam Management and its affiliate, Putnam Investments Limited ("PIL"). The Board, with the assistance of its Contract Committee, requests and evaluates all information it deems reasonably necessary under the circumstances in connection with its annual contract review. The Contract Committee consists solely of Trustees who are not "interested persons" (as this term is defined in the Investment Company Act of 1940, as amended (the "1940 Act")) of The Putnam Funds ("Independent Trustees").

At the outset of the review process, members of the Board's independent staff and independent legal counsel discussed with representatives of Putnam Management the annual contract review materials furnished to the Contract Committee during the course of the previous year's review, identifying possible changes in these materials that might be necessary or desirable for the coming year. Following these discussions and in consultation with the Contract Committee, the Independent Trustees' independent legal counsel requested that Putnam Management and its affiliates furnish specified information, together with any additional information that Putnam Management considered relevant, to the Contract Committee. Over the course of several months ending in June 2018, the Contract Committee met on a number of occasions with representatives of Putnam Management, and separately in executive session, to consider the information that Putnam Management provided. Throughout this process, the Contract Committee was assisted by the members of the Board's independent staff and by independent legal counsel for The Putnam Funds and the Independent Trustees.

In May 2018, the Contract Committee met in executive session to discuss and consider its recommendations with respect to the continuance of the contracts. At the Trustees' June 2018 meeting, the Contract Committee met in executive session with the other Independent Trustees to review a summary of the key financial, performance and other data that the Contract Committee considered in the course of its review. The Contract Committee then presented its written report, which summarized the key factors that the Committee had considered and set forth its recommendations. The Contract Committee recommended, and the Independent Trustees approved, the continuance of your fund's management and sub-management contracts, effective July 1, 2018. (Because PIL is an affiliate of Putnam Management and Putnam Management remains fully responsible for all services provided by PIL, the Trustees have not attempted to evaluate PIL as a separate entity, and all subsequent references to Putnam Management below should be deemed to include reference to PIL as necessary or appropriate in the context.)

The Independent Trustees' approval was based on the following conclusions:

- That the fee schedule in effect for your fund represented reasonable compensation in light of the nature and quality of the services being provided to the fund, the fees paid by competitive funds, the costs incurred by Putnam Management in providing services to the fund, and the application of certain reductions and waivers noted below; and

- That the fee schedule in effect for your fund represented an appropriate sharing between fund shareholders and Putnam Management of such economies of scale as may exist in the management of the fund at current asset levels.

These conclusions were based on a comprehensive consideration of all information provided to the Trustees and were not the result of any single factor. Some of the factors that figured particularly in the Trustees' deliberations and how the Trustees considered these factors are described below, although individual Trustees may have evaluated the information presented differently, giving different weights to various factors. It is also important to recognize that the management arrangements for your fund and the other Putnam funds are the result of many years of review and discussion between the Independent Trustees and Putnam Management, that some aspects of the arrangements may receive greater scrutiny in some years than others, and that the Trustees' conclusions may be based, in part, on their consideration of fee arrangements in previous years. For example, with some minor exceptions, the funds' current fee arrangements under the management contracts were first implemented at the beginning of 2010 following extensive review by the Contract Committee and discussions with representatives of Putnam Management, as well as approval by shareholders.

### Management fee schedules and total expenses

The Trustees reviewed the management fee schedules in effect for all Putnam funds, including fee levels and breakpoints. The Trustees also reviewed the total expenses of each Putnam fund, recognizing that in most cases management fees represented the major, but not the sole, determinant of total costs to fund shareholders. (In a few instances, funds have implemented so-called "all-in" management fees covering substantially all routine fund operating costs.)

In reviewing fees and expenses, the Trustees generally focus their attention on material changes in circumstances — for example, changes in assets under management, changes in a fund's investment strategy, changes in Putnam Management's operating costs or profitability, or changes in competitive practices in the mutual fund industry — that suggest that consideration of fee changes might be warranted. The Trustees concluded that the circumstances did not indicate that changes to the management fee structure for your fund would be appropriate at this time.

Under its management contract, your fund has the benefit of breakpoints in its management fee schedule that provide shareholders with economies of scale in the form of reduced fee rates as assets under management in the Putnam family of funds increase. The Trustees concluded that the fee schedule in effect for your fund represented an appropriate sharing of economies of scale between fund shareholders and Putnam Management.

As in the past, the Trustees also focused on the competitiveness of each fund's total expense ratio. In order to support the effort to have fund expenses meet competitive standards, the Trustees and Putnam Management have implemented certain expense limitations that were in effect during your fund's fiscal year ending in 2017. These expense limitations were: (i) a contractual expense limitation applicable to all open-end funds of 25 basis points on investor servicing fees and expenses and (ii) a contractual expense limitation applicable to specified open-end funds, including your fund, of 20 basis points on so-called "other expenses" (i.e., all expenses exclusive of management fees, distribution fees, investor servicing fees, investment-related expenses, interest, taxes, brokerage

commissions, acquired fund fees and expenses and extraordinary expenses). These expense limitations attempt to maintain competitive expense levels for the funds. Most funds, including your fund, had sufficiently low expenses that these expense limitations were not operative during their fiscal years ending in 2017. Putnam Management has agreed to maintain these expense limitations until at least April 30, 2020. Putnam Management's support for these expense limitation arrangements was an important factor in the Trustees' decision to approve the continuance of your fund's management and sub-management contracts.

The Trustees reviewed comparative fee and expense information for a custom group of competitive funds selected by Broadridge Financial Solutions, Inc. ("Broadridge"). This comparative information included your fund's percentile ranking for effective management fees and total expenses (excluding any applicable 12b-1 fee), which provides a general indication of your fund's relative standing. In the custom peer group, your fund ranked in the third quintile in effective management fees (determined for your fund and the other funds in the custom peer group based on fund asset size and the applicable contractual management fee schedule) and in the third quintile in total expenses (excluding any applicable 12b-1 fees) as of December 31, 2017. The first quintile represents the least expensive funds and the fifth quintile the most expensive funds. The fee and expense data reported by Broadridge as of December 31, 2017 reflected the most recent fiscal year-end data available in Broadridge's database at that time.

In connection with their review of fund management fees and total expenses, the Trustees also reviewed the costs of the services provided and the profits realized by Putnam Management and its affiliates from their contractual relationships with the funds. This information included trends in revenues, expenses and profitability of Putnam Management and its affiliates relating to the investment management, investor servicing and distribution services provided to the funds. In this regard, the Trustees also reviewed an analysis of Putnam Management's revenues, expenses and profitability, allocated on a fund-by-fund basis, with respect to the funds' management, distribution, and investor servicing contracts. For each fund, the analysis presented information about revenues, expenses and profitability for each of the agreements separately and for the agreements taken together on a combined basis. The Trustees concluded that, at current asset levels, the fee schedules in place represented reasonable compensation for the services being provided and represented an appropriate sharing between fund shareholders and Putnam Management of such economies of scale as may exist in the management of the Putnam funds at that time.

The information examined by the Trustees in connection with their annual contract review for the Putnam funds included information regarding fees charged by Putnam Management and its affiliates to institutional clients, including defined benefit pension and profit-sharing plans and sub-advised mutual funds. This information included, in cases where an institutional product's investment strategy corresponds with a fund's strategy, comparisons of those fees with fees charged to the Putnam funds, as well as an assessment of the differences in the services provided to these different types of clients as compared to the services provided to the Putnam funds. The Trustees observed that the differences in fee rates between these clients and the Putnam funds are by no means uniform when examined by individual asset sectors, suggesting that differences in the pricing of investment management services to these types of clients may reflect, among other things, historical competitive forces operating in separate markets. The Trustees considered the fact that in many cases fee rates across different asset classes are higher

on average for mutual funds than for institutional clients, as well as the differences between the services that Putnam Management provides to the Putnam funds and those that it provides to its other clients. The Trustees did not rely on these comparisons to any significant extent in concluding that the management fees paid by your fund are reasonable.

#### Investment performance

The quality of the investment process provided by Putnam Management represented a major factor in the Trustees' evaluation of the quality of services provided by Putnam Management under your fund's management contract. The Trustees were assisted in their review of the Putnam funds' investment process and performance by the work of the investment oversight committees of the Trustees and the full Board of Trustees, which meet on a regular basis with the funds' portfolio teams and with the Chief Investment Officers and other senior members of Putnam Management's Investment Division throughout the year. The Trustees concluded that Putnam Management generally provides a high-quality investment process — based on the experience and skills of the individuals assigned to the management of fund portfolios, the resources made available to them, and in general Putnam Management's ability to attract and retain high-quality personnel — but also recognized that this does not guarantee favorable investment results for every fund in every time period.

The Trustees considered that 2017 was a strong year for the performance of the Putnam funds, with generally favorable results for most asset classes, including U.S. equity, international and global equity, taxable and tax exempt fixed income, and global asset allocation Funds. In this regard, the Trustees considered that, for the one-year period ended December 31, 2017, the Putnam open-end Funds' performance, on an asset-weighted basis, ranked in the 32nd percentile of their Lipper peers (excluding those Putnam funds that are evaluated based on their total returns and/or comparisons of those returns versus selected investment benchmarks or targeted annual returns). The Trustees observed that this strong performance has continued a positive trend that began in mid-year 2016 across most Putnam funds. They noted that the longer-term performance of the Putnam funds continued to be strong, exemplified by the fact that the Putnam funds were ranked by the Barron's/Lipper Fund Families survey as the 7th-best performing mutual fund complex out of 55 complexes for the five-year period ended December 31, 2017 and the 9th-best performing mutual fund complex out of 50 complexes for the ten-year period ended 2017. In addition, the survey ranked the Putnam funds 7th out of 59 mutual fund complexes for the one-year period ended 2017; the Putnam funds have ranked 1st or 2nd in the survey for the one-year period three times since 2009 (most recently in 2013). They also noted, however, the disappointing investment performance of some funds for periods ended December 31, 2017 and considered information provided by Putnam Management regarding the factors contributing to the underperformance and actions being taken to improve the performance of these particular funds. The Trustees indicated their intention to continue to monitor closely the performance of those funds, including the effectiveness of any efforts Putnam Management has undertaken to address underperformance and whether additional actions to address areas of underperformance are warranted.

For purposes of the Trustees' evaluation of the Putnam Funds' investment performance, the Trustees generally focus on a competitive industry ranking of each fund's total net return over a one-year, three-year and five-year period. For a number of Putnam funds with relatively unique investment mandates for which Putnam Management informed the Trustees that meaningful competitive performance rankings are not considered to be available, the Trustees evaluated performance based on

their total gross and net returns and, in most cases, comparisons of those returns with the returns of selected investment benchmarks. In the case of your fund, the Trustees considered that its class IA share cumulative total return performance at net asset value was in the following quartiles of its Lipper Inc. (“Lipper”) peer group (Lipper VP (Underlying Funds) — Large-Cap Core Funds) for the one-year, three-year and five-year periods ended December 31, 2017 (the first quartile representing the best-performing funds and the fourth quartile the worst-performing funds):

One-year period	Three-year period	Five-year period
1st	2nd	1st

Over the one-year, three-year and five-year periods ended December 31, 2017, there were 184, 177 and 165 funds, respectively, in your fund’s Lipper peer group. (When considering performance information, shareholders should be mindful that past performance is not a guarantee of future results.)

The Trustees also considered Putnam Management’s continued efforts to support fund performance through initiatives including structuring compensation for portfolio managers and research analysts to enhance accountability for fund performance, emphasizing accountability in the portfolio management process, and affirming its commitment to a fundamental-driven approach to investing. The Trustees noted further that Putnam Management continued to strengthen its fundamental research capabilities by adding new investment personnel.

**Brokerage and soft-dollar allocations; investor servicing**

The Trustees considered various potential benefits that Putnam Management may receive in connection with the services it provides under the management contract with your fund. These include benefits related to brokerage allocation and the use of soft dollars, whereby a portion of

the commissions paid by a fund for brokerage may be used to acquire research services that are expected to be useful to Putnam Management in managing the assets of the fund and of other clients. Subject to policies established by the Trustees, soft dollars generated by these means are used predominantly to acquire brokerage and research services (including third-party research and market data) that enhance Putnam Management’s investment capabilities and supplement Putnam Management’s internal research efforts. However, the Trustees noted that a portion of available soft dollars continues to be used to pay fund expenses. The Trustees indicated their continued intent to monitor regulatory and industry developments in this area with the assistance of their Brokerage Committee. The Trustees also indicated their continued intent to monitor the allocation of the Putnam funds’ brokerage in order to ensure that the principle of seeking best price and execution remains paramount in the portfolio trading process.

Putnam Management may also receive benefits from payments that the funds make to Putnam Management’s affiliates for investor or distribution services. In conjunction with the annual review of your fund’s management and sub-management contracts, the Trustees reviewed your fund’s investor servicing agreement with Putnam Investor Services, Inc. (“PSERV”) and its distributor’s contracts and distribution plans with Putnam Retail Management Limited Partnership (“PRM”), both of which are affiliates of Putnam Management. The Trustees concluded that the fees payable by the funds to PSERV and PRM, as applicable, for such services are fair and reasonable in relation to the nature and quality of such services, the fees paid by competitive funds, and the costs incurred by PSERV and PRM, as applicable, in providing such services. Furthermore, the Trustees were of the view that the services provided were required for the operation of the funds, and that they were of a quality at least equal to those provided by other providers.

## 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, 2018, are available in the Individual Investors section of [putnam.com](http://putnam.com) and on the Securities and Exchange Commission's (SEC) website at [www.sec.gov](http://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

Each Putnam VT 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-Q. Shareholders may obtain the fund's Form N-Q on the SEC's website at [www.sec.gov](http://www.sec.gov). In addition, the fund's Form N-Q may be reviewed and copied at the SEC's Public Reference Room in Washington, D.C. You may call the SEC at 1-800-SEC-0330 for information about the SEC's website or the operation of the Public Reference Room.

## Fund information

### Investment Manager

Putnam Investment Management, LLC  
One Post Office Square  
Boston, MA 02109

### Investment Sub-Advisor

Putnam Investments Limited  
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London, England SW1A 1ER

### Marketing Services

Putnam Retail Management  
One Post Office Square  
Boston, MA 02109

### Investor Servicing Agent

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1-800-225-1581

### Custodian

State Street Bank and Trust Company

### Legal Counsel

Ropes & Gray LLP

### Trustees

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Barbara M. Baumann  
Katinka Domotorffy  
Catharine Bond Hill  
Paul L. Joskow  
Robert E. Patterson  
George Putnam, III  
Robert L. Reynolds  
Manoj P. Singh

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.