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Putnam Variable Trust

Semiannual report

6 | 30 | 18

Putnam VT
International Value Fund

Message from the Trustees

August 8, 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

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: International investing involves currency, economic, and political risks. Emerging-market securities carry illiquidity and volatility risks. Because the fund currently invests, and may in the future invest, significantly in European companies, the fund is particularly susceptible to economic, political, regulatory, or other events or conditions affecting issuers in Europe. Investments in small and/or midsize companies increase the risk of greater price fluctuations. Value stocks may fail to rebound, and the market may not favor value-style investing. Stock prices may fall or fail to rise over time for a variety of reasons, including general financial market conditions, changing market perceptions, changes in government intervention in the financial markets, and factors related to a specific issuer, industry, or sector. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings. From time to time, the fund may invest a significant portion of its assets in companies in one or more related industries or sectors, which would make the fund more vulnerable to adverse developments affecting those industries or sectors. Risks associated with derivatives include increased investment exposure (which may be considered leverage) and, in the case of over-the-counter instruments, the potential inability to terminate or sell derivatives positions and the potential failure of the other party to the instrument to meet its obligations. You can lose money by investing in the fund.

Performance summary (as of 6/30/18)

Investment objective

Capital growth with current income as its secondary objective

Net asset value June 30, 2018

Class IA: \$11.01

Class IB: \$10.90

Total return at net asset value

(as of 6/30/18)	Class IA shares*	Class IB shares†	MSCI EAFE Value Index (ND)
6 months	-3.86%	-4.06%	-4.61%
1 year	4.92	4.61	4.25
5 years	28.61	27.05	29.92
Annualized	5.16	4.90	5.37
10 years	15.60	12.83	23.98
Annualized	1.46	1.21	2.17
Life	211.20	196.77	207.19
Annualized	5.42	5.19	5.38

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

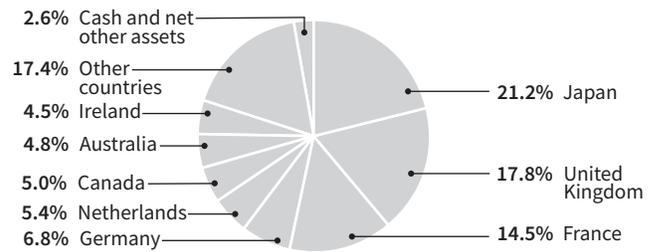
* Class inception date: January 2, 1997.

† Class inception date: April 6, 1998.

The MSCI EAFE Value Index (ND) is an unmanaged index that measures the performance of equity securities representing the value style in countries within Europe, Australasia, and the Far East. Calculated with net dividends (ND), this total return index reflects the reinvestment of dividends after the deduction of withholding taxes, using a tax rate applicable to non-resident institutional investors who do not benefit from double taxation treaties.

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

Portfolio composition



Allocations are shown as a percentage of the fund's net assets. Cash and net other assets, if any, represent the market value weights of cash, derivatives, short-term securities, and other unclassified assets in the portfolio. Summary information may differ from the information in the portfolio schedule notes included in the financial statements due to the inclusion of derivative securities, any interest accruals, the exclusion of as-of trades, if any, 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	0.90%	1.15%
Annualized expense ratio for the six-month period ended 6/30/18	0.91%	1.16%

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*†	\$4.43	\$5.64	\$4.56	\$5.81
Ending value (after expenses)	\$961.40	\$959.40	\$1,020.28	\$1,019.04

*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 **Darren A. Jaroch, CFA**, joined Putnam in 1999 and has been in the investment industry since 1996.



Assistant Portfolio Manager **Karan S. Sodhi, CFA**, served at Putnam from 2000 to 2007 and rejoined the firm in 2010. He has been in the investment industry since 1998.

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)

COMMON STOCKS (97.5%)*	Shares	Value
Aerospace and defense (1.4%)		
BAE Systems PLC (United Kingdom)	133,240	\$1,137,024
		1,137,024
Airlines (1.1%)		
Japan Airlines Co., Ltd. (Japan)	25,100	890,510
		890,510
Auto components (1.6%)		
Magna International, Inc. (Canada)	12,213	710,308
Valeo SA (France)	10,891	594,463
		1,304,771
Automobiles (3.2%)		
Fiat Chrysler Automobiles NV (Italy) †	32,925	626,759
Nissan Motor Co., Ltd. (Japan)	146,000	1,421,560
Yamaha Motor Co., Ltd. (Japan)	21,600	543,536
		2,591,855
Banks (13.2%)		
Australia & New Zealand Banking Group, Ltd. (Australia)	76,430	1,597,312
Bank of Ireland Group PLC (Ireland)	76,537	596,571
Danske Bank A/S (Denmark)	27,632	863,636
DNB ASA (Norway)	35,396	690,419
ING Groep NV (Netherlands)	190,848	2,738,541
Lloyds Banking Group PLC (United Kingdom)	386,276	321,352
Mizuho Financial Group, Inc. (Japan)	367,500	619,056
Skandinaviska Enskilda Banken AB (Sweden)	59,467	564,614
Societe Generale SA (France)	30,681	1,291,910
Sumitomo Mitsui Financial Group, Inc. (Japan)	35,500	1,380,689
		10,664,100
Building products (2.5%)		
Compagnie De Saint-Gobain (France)	13,637	608,176
Johnson Controls International PLC	22,100	739,245
Sanwa Holdings Corp. (Japan)	59,700	633,047
		1,980,468
Capital markets (3.1%)		
Credit Suisse Group AG (Switzerland)	30,702	460,761
Natixis SA (France)	102,106	722,943
Quilter PLC (United Kingdom) †	420,886	804,979
UBS Group AG (Switzerland)	35,885	552,093
		2,540,776
Chemicals (0.5%)		
LANXESS AG (Germany)	5,276	411,162
		411,162
Construction and engineering (2.2%)		
Vinci SA (France)	18,636	1,789,896
		1,789,896
Construction materials (1.5%)		
CRH PLC (Ireland)	19,624	693,541
LafargeHolcim, Ltd. (Switzerland)	9,720	473,941
		1,167,482
Diversified financial services (2.9%)		
Challenger, Ltd. (Australia)	92,667	811,280
Eurazeo SA (France)	10,206	773,284
ORIX Corp. (Japan)	46,600	737,418
		2,321,982
Diversified telecommunication services (4.8%)		
BCE, Inc. (Canada)	14,500	587,213
Com Hem Holding AB (Sweden)	45,456	738,463
Nippon Telegraph & Telephone Corp. (Japan)	27,500	1,250,869
Spark New Zealand, Ltd. (New Zealand)	338,268	854,576
Telecom Italia SpA RSP (Italy)	722,612	470,877
		3,901,998

COMMON STOCKS (97.5%)* cont.	Shares	Value
Electric utilities (1.9%)		
Fortum OYJ (Finland)	27,781	\$662,647
SSE PLC (United Kingdom)	47,416	847,145
		1,509,792
Electronic equipment, instruments, and components (1.1%)		
TDK Corp. (Japan)	8,400	858,854
		858,854
Equity real estate investment trusts (REITs) (1.0%)		
Hibernia REIT PLC (Ireland)	240,709	421,654
Vicinity Centres (Australia)	202,929	388,960
		810,614
Food and staples retail (1.8%)		
Koninklijke Ahold Delhaize NV (Netherlands)	33,151	793,109
Seven & i Holdings Co., Ltd. (Japan)	14,500	632,701
		1,425,810
Food products (1.4%)		
Kerry Group PLC Class A (Ireland)	10,896	1,138,016
		1,138,016
Health-care equipment and supplies (1.2%)		
Hoya Corp. (Japan)	17,100	972,884
		972,884
Hotels, restaurants, and leisure (1.0%)		
Dalata Hotel Group PLC (Ireland) †	96,710	787,573
		787,573
Household durables (0.8%)		
Panasonic Corp. (Japan)	47,700	643,453
		643,453
Household products (0.7%)		
Henkel AG & Co. KGaA (Preference) (Germany)	4,167	533,264
		533,264
Industrial conglomerates (3.8%)		
Siemens AG (Germany)	17,241	2,278,384
Toshiba Corp. (Japan) †	269,000	809,077
		3,087,461
Insurance (10.0%)		
AIA Group, Ltd. (Hong Kong)	163,600	1,430,478
Allianz SE (Germany)	3,938	813,742
AXA SA (France)	49,557	1,214,108
Chubb, Ltd.	7,865	999,012
Insurance Australia Group, Ltd. (Australia)	172,341	1,087,924
Prudential PLC (United Kingdom)	71,022	1,622,760
SCOR SE (France)	23,370	866,914
		8,034,938
Machinery (1.3%)		
KION Group AG (Germany)	6,725	483,241
NSK, Ltd. (Japan)	51,100	527,546
		1,010,787
Metals and mining (2.7%)		
Glencore PLC (United Kingdom)	160,843	762,586
Rio Tinto PLC (United Kingdom)	25,502	1,406,508
		2,169,094
Multi-utilities (1.2%)		
Veolia Environnement SA (France)	43,676	934,388
		934,388
Oil, gas, and consumable fuels (8.5%)		
Encana Corp. (Canada)	65,900	860,688
Royal Dutch Shell PLC Class A (Amsterdam Exchange) (United Kingdom)	55,174	1,914,540
Royal Dutch Shell PLC Class B (United Kingdom)	31,294	1,119,340
Suncor Energy, Inc. (Canada)	46,531	1,893,590
TOTAL SA (France)	17,910	1,089,131
		6,877,289
Personal products (1.7%)		
Shiseido Co., Ltd. (Japan)	6,700	532,417
Unilever NV ADR (Netherlands)	15,334	854,787
		1,387,204

COMMON STOCKS (97.5%)* cont.	Shares	Value
Pharmaceuticals (7.0%)		
AstraZeneca PLC (United Kingdom)	20,049	\$1,388,096
Bayer AG (Germany)	8,768	966,028
Novartis AG (Switzerland)	19,174	1,452,326
Sanofi (France)	22,652	1,813,810
		5,620,260
Real estate management and development (0.9%)		
Mitsui Fudosan Co., Ltd. (Japan)	30,700	741,470
		741,470
Semiconductors and semiconductor equipment (1.4%)		
SCREEN Holdings Co., Ltd. (Japan)	7,400	521,339
Sino-American Silicon Products, Inc. (Taiwan)	159,000	641,455
		1,162,794
Software (0.5%)		
Nintendo Co., Ltd. (Japan)	1,200	392,359
		392,359
Technology hardware, storage, and peripherals (1.5%)		
Samsung Electronics Co., Ltd. (South Korea)	28,543	1,194,734
		1,194,734
Tobacco (1.1%)		
Imperial Brands PLC (United Kingdom)	23,102	860,210
		860,210
Trading companies and distributors (4.1%)		
ITOCHU Corp. (Japan)	46,900	850,397
Mitsubishi Corp. (Japan)	56,500	1,570,763
Wolseley PLC (United Kingdom)	10,683	866,822
		3,287,982
Transportation infrastructure (0.7%)		
Aena SME SA (Spain)	3,127	567,234
		567,234
Wireless telecommunication services (2.2%)		
KDDI Corp. (Japan)	16,900	462,665
Vodafone Group PLC (United Kingdom)	540,817	1,310,495
		1,773,160
Total common stocks (cost \$69,010,199)		\$78,483,648
	Principal amount/ shares	Value
SHORT-TERM INVESTMENTS (1.9%)*		
Putnam Short Term Investment Fund 2.04% ^L	Shares 1,445,188	\$1,445,188
U.S. Treasury Bills 1.913%, 8/9/18 ^Δ	111,000	110,786
Total short-term investments (cost \$1,555,966)		\$1,555,974
Total investments (cost \$70,566,165)		\$80,039,622

Key to holding's abbreviations

ADR American Depositary 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, 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 \$80,496,724.

† This security is non-income-producing.

Δ This security, in part or in entirety, was pledged and segregated with the custodian for collateral on certain derivative contracts at the close of the reporting period. Collateral at period end totaled \$110,778 and is included in Investments in securities on the Statement of assets and liabilities (Notes 1 and 8).

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

At the close of the reporting period, the fund maintained liquid assets totaling \$105,511 to cover certain derivative contracts.

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

DIVERSIFICATION BY COUNTRY

Distribution of investments by country of risk at the close of the reporting period, excluding collateral received, if any (as a percentage of Portfolio Value):

Japan	21.1%	Sweden	1.6%
United Kingdom	17.9	South Korea	1.5
France	14.6	Italy	1.4
Germany	6.9	Denmark	1.1
Netherlands	5.5	New Zealand	1.1
Canada	5.1	Norway	0.9
Australia	4.9	Finland	0.8
Ireland	4.5	Taiwan	0.8
United States	4.1	Spain	0.7
Switzerland	3.7	Total	100.0%
Hong Kong	1.8		

FORWARD CURRENCY CONTRACTS at 6/30/18 (aggregate face value \$30,545,565) (Unaudited)						
Counterparty	Currency	Contract type*	Delivery date	Value	Aggregate face value	Unrealized appreciation/ (depreciation)
Bank of America N.A.						
	Australian Dollar	Buy	7/18/18	\$159,633	\$207,871	\$(48,238)
	Canadian Dollar	Sell	7/18/18	578,107	591,376	13,269
	Euro	Sell	9/19/18	288,016	288,598	582
	Hong Kong Dollar	Buy	8/16/18	727,352	728,089	(737)
Barclays Bank PLC						
	Australian Dollar	Buy	7/18/18	328,517	337,990	(9,473)
	Australian Dollar	Sell	7/18/18	328,517	333,959	5,442
	British Pound	Buy	9/19/18	2,432,340	2,457,011	(24,671)
	Canadian Dollar	Sell	7/18/18	249,641	255,351	5,710
	Hong Kong Dollar	Buy	8/16/18	714,088	714,747	(659)
Citibank, N.A.						
	Australian Dollar	Buy	7/18/18	243,779	252,936	(9,157)
	Australian Dollar	Sell	7/18/18	243,779	243,733	(46)
	British Pound	Buy	9/19/18	448,143	453,284	(5,141)
	Canadian Dollar	Sell	7/18/18	997,728	1,020,991	23,263
	Danish Krone	Sell	9/19/18	540,055	543,428	3,373
	Euro	Sell	9/19/18	2,925,966	2,935,498	9,532
Credit Suisse International						
	Swedish Krona	Buy	9/19/18	96,237	97,973	(1,736)
Goldman Sachs International						
	Canadian Dollar	Sell	7/18/18	507,956	520,617	12,661
	Chinese Yuan (Offshore)	Buy	8/16/18	32,513	33,792	(1,279)
	Euro	Sell	9/19/18	546,548	547,819	1,271
	Japanese Yen	Buy	8/16/18	976,915	989,093	(12,178)
JPMorgan Chase Bank N.A.						
	British Pound	Buy	9/19/18	2,479,354	2,507,937	(28,583)
	Euro	Sell	9/19/18	437,662	438,583	921
	Japanese Yen	Buy	8/16/18	1,326,425	1,333,406	(6,981)
	New Zealand Dollar	Sell	7/18/18	819,262	874,982	55,720
	Norwegian Krone	Buy	9/19/18	148,177	147,841	336
	Singapore Dollar	Buy	8/16/18	1,150,508	1,175,791	(25,283)
	South Korean Won	Sell	8/16/18	1,180,108	1,222,047	41,939
	Swiss Franc	Buy	9/19/18	2,422,652	2,435,107	(12,455)
State Street Bank and Trust Co.						
	Australian Dollar	Buy	7/18/18	1,425,005	1,478,008	(53,003)
	Canadian Dollar	Sell	7/18/18	1,233,293	1,261,985	28,692
	Israeli Shekel	Buy	7/18/18	480,517	502,432	(21,915)
	Japanese Yen	Sell	8/16/18	179,862	181,437	1,575
UBSAG						
	Australian Dollar	Buy	7/18/18	1,357,362	1,357,252	110
	Australian Dollar	Sell	7/18/18	1,357,362	1,408,002	50,640
	Canadian Dollar	Sell	7/18/18	651,684	666,599	14,915
Unrealized appreciation						269,951
Unrealized (depreciation)						(261,535)
Total						\$8,416

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

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

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

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

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

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

Investments in securities:	Valuation inputs		
	Level 1	Level 2	Level 3
Common stocks*:			
Consumer discretionary	\$3,318,857	\$2,008,795	\$—
Consumer staples	1,165,118	4,179,386	—
Energy	2,754,278	4,123,011	—
Financials	9,468,148	14,093,648	—
Health care	972,884	5,620,260	—
Industrials	6,020,585	7,730,777	—
Information technology	3,608,741	—	—
Materials	—	3,747,738	—
Real estate	1,130,430	421,654	—
Telecommunication services	3,155,323	2,519,835	—
Utilities	—	2,444,180	—
Total common stocks	31,594,364	46,889,284	—
Short-term investments	1,445,188	110,786	—
Totals by level	\$33,039,552	\$47,000,070	\$—

Other financial instruments:	Valuation inputs		
	Level 1	Level 2	Level 3
Forward currency contracts	\$—	\$8,416	\$—
Totals by level	\$—	\$8,416	\$—

* 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.

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

Statement of assets and liabilities

6/30/18 (Unaudited)

Assets	
Investment in securities, at value (Notes 1 and 8):	
Unaffiliated issuers (identified cost \$69,120,977)	\$78,594,434
Affiliated issuers (identified cost \$1,445,188) (Notes 1 and 5)	1,445,188
Foreign currency (cost \$63,971) (Note 1)	64,001
Dividends, interest and other receivables	269,074
Foreign tax reclaim	132,730
Receivable for shares of the fund sold	269
Receivable for investments sold	257,494
Unrealized appreciation on forward currency contracts (Note 1)	269,951
Total assets	81,033,141
Liabilities	
Payable for shares of the fund repurchased	82,968
Payable for compensation of Manager (Note 2)	46,847
Payable for custodian fees (Note 2)	9,665
Payable for investor servicing fees (Note 2)	8,832
Payable for Trustee compensation and expenses (Note 2)	77,010
Payable for administrative services (Note 2)	319
Payable for distribution fees (Note 2)	7,813
Payable for auditing and tax fees	23,253
Unrealized depreciation on forward currency contracts (Note 1)	261,535
Other accrued expenses	18,175
Total liabilities	536,417
Net assets	\$80,496,724
Represented by	
Paid-in capital (Unlimited shares authorized) (Notes 1 and 4)	\$67,613,631
Undistributed net investment income (Note 1)	1,236,409
Accumulated net realized gain on investments and foreign currency transactions (Note 1)	2,166,460
Net unrealized appreciation of investments and assets and liabilities in foreign currencies	9,480,224
Total — Representing net assets applicable to capital shares outstanding	\$80,496,724
Computation of net asset value Class IA	
Net assets	\$43,078,594
Number of shares outstanding	3,911,680
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$11.01
Computation of net asset value Class IB	
Net assets	\$37,418,130
Number of shares outstanding	3,431,812
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$10.90

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 \$211,837)	\$1,867,580
Interest (including interest income of \$8,845 from investments in affiliated issuers) (Note 5)	9,452
Securities lending (net of expenses) (Notes 1 and 5)	26,621
Total investment income	1,903,653

Expenses

Compensation of Manager (Note 2)	295,063
Investor servicing fees (Note 2)	30,084
Custodian fees (Note 2)	10,706
Trustee compensation and expenses (Note 2)	2,399
Distribution fees (Note 2)	48,741
Administrative services (Note 2)	942
Auditing and tax fees	25,605
Other	22,990
Total expenses	436,530
Expense reduction (Note 2)	(946)
Net expenses	435,584
Net investment income	1,468,069

Realized and unrealized gain (loss)

Net realized gain (loss) on:

Securities from unaffiliated issuers (Notes 1 and 3)	2,260,719
Foreign currency transactions (Note 1)	(24,705)
Forward currency contracts (Note 1)	50,893
Total net realized gain	2,286,907

Change in net unrealized appreciation (depreciation) on:

Securities from unaffiliated issuers	(7,041,690)
Assets and liabilities in foreign currencies	(7,503)
Forward currency contracts	5,164
Total change in net unrealized depreciation	(7,044,029)
Net loss on investments	(4,757,122)
Net decrease in net assets resulting from operations	\$(3,289,053)

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
Increase (decrease) in net assets		
Operations:		
Net investment income	\$1,468,069	\$1,839,028
Net realized gain on investments and foreign currency transactions	2,286,907	2,632,721
Net unrealized appreciation (depreciation) of investments and assets and liabilities in foreign currencies	(7,044,029)	14,367,631
Net increase (decrease) in net assets resulting from operations	(3,289,053)	18,839,380
Distributions to shareholders (Note 1):		
From ordinary income		
Net investment income		
Class IA	(999,882)	(795,881)
Class IB	(751,802)	(593,202)
Decrease from capital share transactions (Note 4)	(2,355,859)	(10,772,947)
Total increase (decrease) in net assets	(7,396,596)	6,677,350
Net assets:		
Beginning of period	87,893,320	81,215,970
End of period (including undistributed net investment income of \$1,236,409 and \$1,520,024, respectively)	\$80,496,724	\$87,893,320

* 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) ^a	Net realized and unrealized gain (loss) on investments	Total from investment operations	From net investment income	Total distributions	Net asset value, end of period	Total return at net asset value (%) ^{b,c}	Net assets, end of period (in thousands)	Ratio of expenses to average net assets (%) ^d	Ratio of net investment income (loss) to average net assets (%)	Portfolio turnover (%)
Class IA												
6/30/18†	\$11.71	.21	(.66)	(.45)	(.25)	(.25)	\$11.01	(3.86)*	\$43,079	.45*	1.77*	8*
12/31/17	9.54	.24	2.11	2.35	(.18)	(.18)	11.71	24.95	47,732	.90	2.26	11
12/31/16	9.67	.21	(.09)	.12	(.25)	(.25)	9.54	1.28	43,650	.92 ^e	2.29 ^e	23
12/31/15	9.99	.20	(.36)	(.16)	(.16)	(.16)	9.67	(1.71)	49,516	.88	1.97	29
12/31/14	11.18	.20	(1.22)	(1.02)	(.17)	(.17)	9.99	(9.29)	58,217	.91	1.88	41
12/31/13	9.39	.20	1.87	2.07	(.28)	(.28)	11.18	22.63	74,948	.93	2.04	50
Class IB												
6/30/18†	\$11.59	.19	(.66)	(.47)	(.22)	(.22)	\$10.90	(4.06)*	\$37,418	.58*	1.64*	8*
12/31/17	9.44	.21	2.10	2.31	(.16)	(.16)	11.59	24.69	40,161	1.15	2.02	11
12/31/16	9.56	.19	(.09)	.10	(.22)	(.22)	9.44	1.11	37,566	1.17 ^e	2.02 ^e	23
12/31/15	9.88	.17	(.36)	(.19)	(.13)	(.13)	9.56	(2.00)	39,629	1.13	1.71	29
12/31/14	11.06	.17	(1.21)	(1.04)	(.14)	(.14)	9.88	(9.49)	46,061	1.16	1.63	41
12/31/13	9.30	.16	1.85	2.01	(.25)	(.25)	11.06	22.21	57,687	1.18	1.60	50

* Not annualized.

† Unaudited.

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

^b Total return assumes dividend reinvestment.

^c The charges and expenses at the insurance company separate account level are not reflected.

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

^e Reflects a voluntary waiver of certain fund expenses in effect during the period. As a result of such waivers, the expenses of each class reflect a reduction of less than .01% as a percentage of average net assets per share for each class (Note 2).

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 International Value 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 growth. Current income is a secondary objective. The fund invests mainly in common stocks of large and midsize companies outside the United States, with a focus on value stocks. Value stocks are those that Putnam Management believes are currently undervalued by the market. If Putnam Management is correct and other investors ultimately recognize the value of the company, the price of its stock may rise. The fund invests mainly in developed countries, but may invest in emerging markets. Putnam Management 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 may also use derivatives, such as futures, options, certain foreign currency transactions, warrants and swap contracts, for both hedging and non-hedging purposes.

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 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. 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.

All premiums/discounts are amortized/accreted on a yield-to-maturity basis.

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

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

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

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

Master agreements The fund is a party to ISDA (International Swaps and Derivatives Association, Inc.) Master Agreements (Master Agreements) with certain counterparties that govern OTC derivative and foreign exchange contracts entered into from time to time. The Master Agreements may contain provisions regarding, among other things, the parties' general obligations, representations, agreements, collateral requirements, events of default and early termination. With respect to certain counterparties, in accordance with the terms of the Master Agreements, collateral 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 had a net liability position of \$105,162 on open derivative contracts subject to the Master Agreements. Collateral posted by the fund at period end for these agreements totaled \$110,778 and may include amounts related to unsettled agreements.

Securities lending The fund may lend securities, through its agent, to qualified borrowers in order to earn additional income. The loans are collateralized by cash in an amount at least equal to the fair value of the securities loaned. The fair value of securities loaned is determined daily and any additional required collateral is allocated to the fund on the next business day. The remaining maturities of the securities lending transactions are considered overnight and continuous. The risk

of borrower default will be borne by the fund's agent; the fund will bear the risk of loss with respect to the investment of the cash collateral. Income from securities lending, net of expenses, is included in investment income on the Statement of operations. Cash collateral is invested in Putnam Cash Collateral Pool, LLC, a limited liability company managed by an affiliate of Putnam Management. Investments in Putnam Cash Collateral Pool, LLC are valued at its closing net asset value each business day. There are no management fees charged to Putnam Cash Collateral Pool, LLC. At the close of the reporting period, the fund had no securities out on loan.

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

Lines of credit The fund participates, along with other Putnam funds, in a \$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.

The aggregate identified cost on a tax basis is \$70,677,196, resulting in gross unrealized appreciation and depreciation of \$14,787,645 and \$5,416,803, respectively, or net unrealized appreciation of \$9,370,842.

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 30.7% 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:

0.850%	of the first \$5 billion,
0.800%	of the next \$5 billion,
0.750%	of the next \$10 billion,
0.700%	of the next \$10 billion,
0.650%	of the next \$50 billion,
0.630%	of the next \$50 billion,
0.620%	of the next \$100 billion and
0.615%	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 0.343% 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 Putnam Advisory Company, LLC (PAC), an affiliate of Putnam Management, is authorized by the Trustees to manage a separate portion of the assets of the fund, as designated from time to time by Putnam Management or PIL. PAC did not manage any portion of the assets of the fund during the reporting period. If Putnam Management or PIL were to engage the services of PAC, Putnam Management or PIL, as applicable, would pay a quarterly sub-advisory fee to PAC for its services at the annual rate of 0.35% of the average net assets of the portion of the fund's assets for which PAC is engaged as sub-adviser.

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	\$16,325
Class IB	13,759
Total	\$30,084

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 \$16 under the expense offset arrangements and by \$930 under the brokerage/service arrangements.

Each Independent Trustee of the fund receives an annual Trustee fee, of which \$64, as a quarterly retainer, has been allocated to the fund, and an additional fee for each Trustees meeting attended. Trustees also are reimbursed for expenses they incur relating to their services as Trustees.

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

The fund has adopted an unfunded noncontributory defined benefit pension plan (the Pension Plan) covering all Trustees of the fund who have served as a Trustee for at least five years and were first elected prior to 2004. Benefits under the Pension Plan are equal to 50% of the Trustee's average annual attendance and retainer fees for the three years ended December 31, 2005. The retirement benefit is payable during a Trustee's lifetime, beginning the year following retirement, for the number of years of service through December 31, 2006. Pension expense for the fund is included in Trustee compensation and expenses in the Statement of operations. Accrued pension liability is included in Payable for Trustee compensation and expenses in the Statement of assets and liabilities. The Trustees have terminated the Pension Plan with respect to any Trustee first elected after 2003.

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

Note 3 — Purchases and sales of securities

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

	Cost of purchases	Proceeds from sales
Investments in securities (Long-term)	\$6,364,062	\$10,218,559
U.S. government securities (Long-term)	—	—
Total	\$6,364,062	\$10,218,559

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

Note 4 — Capital shares

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

	Class IA shares				Class IB shares			
	Six months ended 6/30/18		Year ended 12/31/17		Six months ended 6/30/18		Year ended 12/31/17	
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount
Shares sold	62,649	\$745,902	129,437	\$1,421,143	183,674	\$2,095,916	106,091	\$1,146,893
Shares issued in connection with reinvestment of distributions	89,116	999,882	78,957	795,881	67,608	751,802	59,439	593,202
	151,765	1,745,784	208,394	2,217,024	251,282	2,847,718	165,530	1,740,095
Shares repurchased	(314,597)	(3,650,035)	(707,448)	(7,540,859)	(285,950)	(3,299,326)	(678,404)	(7,189,207)
Net decrease	(162,832)	\$(1,904,251)	(499,054)	\$(5,323,835)	(34,668)	\$(451,608)	(512,874)	\$(5,449,112)

Note 5 — Affiliated transactions

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

Name of affiliate	Fair value as of 12/31/17	Purchase cost	Sale proceeds	Investment income	Shares outstanding and fair value as of 6/30/18
Short-term investments					
Putnam Cash Collateral Pool, LLC*	\$—	\$13,877,190	\$13,877,190	\$13,524	\$—
Putnam Short Term Investment Fund**	822,910	8,329,766	7,707,488	8,845	1,445,188
Total Short-term investments	\$822,910	\$22,206,956	\$21,584,678	\$22,369	\$1,445,188

*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:

Forward currency contracts (contract amount)	\$18,200,000
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The following is a summary of the fair value of derivative instruments as of the close of the reporting period:

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

Derivatives not accounted for as hedging instruments under ASC 815	Asset derivatives		Liability derivatives	
	Statement of assets and liabilities location	Fair value	Statement of assets and liabilities location	Fair value
Foreign exchange contracts	Investments, receivables	\$269,951	Payables	\$261,535
Total		\$269,951		\$261,535

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

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

Derivatives not accounted for as hedging instruments under ASC 815	Forward currency contracts	Total
Foreign exchange contracts	\$50,893	\$50,893
Total	\$50,893	\$50,893

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

Derivatives not accounted for as hedging instruments under ASC 815	Forward currency contracts	Total
Foreign exchange contracts	\$5,164	\$5,164
Total	\$5,164	\$5,164

Note 8 — Offsetting of financial and derivative assets and liabilities

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

	Bank of America N.A.	Barclays Bank PLC	Citibank, N.A.	Credit Suisse International	Goldman Sachs International	JPMorgan Chase Bank N.A.	State Street Bank and Trust Co.	UBSAG	Total
Assets:									
Forward currency contracts [#]	\$13,851	\$11,152	\$36,168	\$—	\$13,932	\$98,916	\$30,267	\$65,665	\$269,951
Total Assets	\$13,851	\$11,152	\$36,168	\$—	\$13,932	\$98,916	\$30,267	\$65,665	\$269,951
Liabilities:									
Forward currency contracts [#]	48,975	34,803	14,344	1,736	13,457	73,302	74,918	—	261,535
Total Liabilities	\$48,975	\$34,803	\$14,344	\$1,736	\$13,457	\$73,302	\$74,918	\$—	\$261,535
Total Financial and Derivative Net Assets	\$(35,124)	\$(23,651)	\$21,824	\$(1,736)	\$475	\$25,614	\$(44,651)	\$65,665	\$8,416
Total collateral received (pledged) ^{†##}	\$(35,124)	\$—	\$—	\$—	\$—	\$—	\$—	\$—	
Net amount	\$—	\$(23,651)	\$21,824	\$(1,736)	\$475	\$25,614	\$(44,651)	\$65,665	
<i>Controlled collateral received (including TBA commitments)**</i>	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—
<i>Uncontrolled collateral received</i>	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$—
<i>Collateral (pledged) (including TBA commitments)**</i>	\$(110,778)	\$—	\$—	\$—	\$—	\$—	\$—	\$—	\$(110,778)

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

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

Covered by master netting agreement (Note 1).

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

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"), the sub-management contract with respect to your fund between Putnam Management and its affiliate, Putnam Investments Limited ("PIL"), and the sub-advisory contract among Putnam Management, PIL, and another affiliate, The Putnam Advisory Company ("PAC"). 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, sub-management and sub-advisory contracts, effective July 1, 2018. (Because PIL and PAC are affiliates of Putnam Management and Putnam Management remains fully responsible for all services provided by PIL and PAC, the Trustees have not attempted to evaluate PIL or PAC as separate entities, and all subsequent references to Putnam Management below should be deemed to include reference to PIL and PAC 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, sub-management and sub-advisory 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 first 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 second 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) — International Large-Cap Value 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	1st	1st

Over the one-year, three-year and five-year periods ended December 31, 2017, there were 16, 16 and 15 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, sub-management and sub-advisory 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.

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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 and on the Securities and Exchange Commission's (SEC) website at www.sec.gov. If you have questions about finding forms on the SEC's website, you may call the SEC at 1-800-SEC-0330. You may also obtain the Putnam funds' proxy voting guidelines and procedures at no charge by calling Putnam's Shareholder Services at 1-800-225-1581.

Fund portfolio holdings

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. 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
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Investment Sub-Advisors

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The Putnam Advisory Company, LLC
One Post Office Square
Boston, MA 02109

Marketing Services

Putnam Retail Management
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Investor Servicing Agent

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1-800-225-1581

Custodian

State Street Bank and Trust Company

Legal Counsel

Ropes & Gray LLP

Trustees

Kenneth R. Leibler, *Chair*
Liaquat Ahamed
Ravi Akhoury
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.

