

Putnam Variable Trust

Putnam VT Small Cap Value Fund

Semiannual report 6 | 30 | 21

Message from the Trustees

August 12, 2021

Dear Shareholder:

The U.S. economy is much improved from a year ago, or even six months ago. Gross domestic product is growing at a pre-pandemic pace. Stock prices are high and interest rates are low. More and more workers are finding jobs, with millions still open. At the same time, vaccinations in many areas have not yet reached enough people to stop the spread of Covid-19. U.S. and global infection rates have recently risen.

While it is too soon to declare the pandemic over, it is worth taking stock of the economy's transition. Some changes accelerated by the pandemic could be lasting. Dynamic, well-managed companies have adapted to seize new, more sustainable growth opportunities.

An active investment philosophy is well suited to this time. Putnam's research teams are analyzing the fundamentals of what has stayed the same and what has changed to uncover valuable investment insights or potential risks.

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: 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. The value of investments in the fund's portfolio may fall or fail to rise over extended periods of time for a variety of reasons, including general economic, political, or financial market conditions; investor sentiment and market perceptions; government actions; geopolitical events or changes; and factors related to a specific issuer, geography, industry, or sector. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings. These risks are generally greater for small and midsize companies. 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. Our investment techniques, analyses, and judgments may not produce the outcome we intend. The investments we select for the fund may not perform as well as other securities that we do not select for the fund. We, or the fund's other service providers, may experience disruptions or operating errors that could have a negative effect on the fund. You can lose money by investing in the fund.

Performance summary (as of 6/30/21)

Investment objective

Capital appreciation

Net asset value June 30, 2021

Class IA: \$13.65 Class IB: \$13.42

Total return at net asset value

(as of 6/30/21)	Class IA shares*	Class IB shares*	Russell 2000 Value Index
6 months	35.31%	35.07%	26.69%
1 year	85.89	85.47	73.28
5 years	90.21	87.92	89.34
Annualized	13.72	13.45	13.62
10 years	189.93	182.71	180.10
Annualized	11.23	10.95	10.85
Life	709.92	668.06	700.84
Annualized	9.90	9.63	9.84

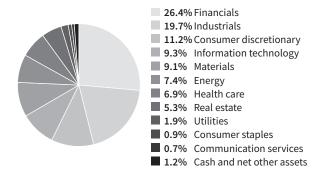
For a portion of the periods, the fund had expense limitations, without which returns would have been lower.

The Russell 2000 Value Index is an unmanaged index of those companies in the small-cap Russell 2000 Index chosen for their value orientation.

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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.

^{*} Class inception date: April 30, 1999.

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 1/1/21 to 6/30/21. 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

	ClassIA	Class IB
Total annual operating expenses for the fiscal year ended 12/31/20	1.15%	1.40%
Annualized expense ratio for the six-month period ended 6/30/21	0.74%	0.99%

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.

Prospectus expense information also includes the impact of acquired fund fees and expenses of 0.35%, which is not included in the financial highlights or annualized expense ratios. Expenses are shown as a percentage of average

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Expenses per \$1,000

	Expenses and v \$1,000 investm actual returns 6 months ende	nent, assuming for the	\$1,000 investment, assumin a hypothetical 5% annualize return for the 6 months ended 6/30/21	
	Class IA	Class IB	Class IA	Class IB
Expenses paid per \$1,000*†	\$4.32	\$5.77	\$3.71	\$4.96
Ending value (after				
expenses)	\$1,353.10	\$1,350.70	\$1,021.12	\$1,019.89

*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 6/30/21. 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 (181); and then dividing that result by the number of days in the year (365). Expenses based on a hypothetical 5% return are calculated by multiplying the expense ratio by the average account value for the six-month period; then multiplying the result by the number of days in the six-month period (181); and then dividing that result by the number of days in the year (365).

Your fund's manager



Portfolio Manager Michael C. Petro, CFA, joined Putnam in 2002 and has been in the investment industry since 1999.

Your fund's manager also manages 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 6/30/21 (Unaudited)

COMMON STOCKS (96.2%)*	Shares	Value
Aerospace and defense (1.9%)		
Maxar Technologies, Inc. s	41,300	\$1,648,696
Vectrus, Inc. †	26,998	1,284,835
Air freight and logistics (0.9%)		2,933,531
Radiant Logistics, Inc. †	207,000	1,434,510
	. ,	1,434,510
Airlines (1.0%)	7.500	
Allegiant Travel Co. †	7,500	1,455,000 1,455,000
Auto components (0.9%)		1,455,000
Patrick Industries, Inc.	18,611	1,358,603
Banks (16.0%)		1,358,603
Ameris Bancorp	26,600	1,346,757
Atlantic Capital Bancshares, Inc. †	51,000	1,298,460
Bancorp, Inc. (The) †	59,500	1,369,095
Berkshire Hills Bancorp, Inc.	45,300	1,241,673
Coastal Financial Corp./WA†	19,598	559,719
ConnectOne Bancorp, Inc.	62,269	1,629,580
CrossFirst Bankshares, Inc. †	107,800	1,482,250
First Bancshares, Inc. (The)	33,700	1,261,391
First Horizon Corp.	81,200	1,403,136
Five Star Bancorp †	70,258	1,696,731
Lakeland Bancorp, Inc.	90,000	1,573,200
OFG Bancorp (Puerto Rico)	77,300	1,709,876
Peoples Bancorp, Inc.	11,291	334,439
Preferred Bank	20,200	1,278,054
Professional Holding Corp. Class A†	50,989	918,822
QCR Holdings, Inc.	27,298	1,312,761
Reliant Bancorp, Inc.	45,600	1,264,488
Southern First Bancshares, Inc. †	22,284	1,140,049
Univest Financial Corp.	55,600	1,466,172
Building products (1.8%)		24,286,653
Insteel Industries, Inc.	29,500	948,425
Quanex Building Products Corp.	53,646	1,332,567
Tecnoglass, Inc. (Colombia) \$	23,400	500,760
Capital markets (0.20%)		2,781,752
Capital markets (0.2%) Stifel Financial Corp.	5,800	376,188
	3,000	376,188
Chemicals (3.1%)		
AdvanSix, Inc. †	41,328	1,234,054
Olin Corp.	29,700	1,373,922
Tronox Holdings PLC Class A (United Kingdom)	91,288	2,044,851
Commercial services and supplies (4.0%)		4,652,827
ACCO Brands Corp.	148,500	1,281,555
Clean Harbors, Inc. †	13,900	1,294,646
Deluxe Corp.	42,500	2,030,225
Herman Miller, Inc.	29,900	1,409,486
Communications equipment (0.9%)		6,015,912
Ribbon Communications, Inc. †	180,500	1,373,605
Construction and engineering (2.0%)		1,373,605
Sterling Construction Co., Inc. †	63,417	1,530,252
WillScot Mobile Mini Holdings Corp. †	52,900	1,474,323
		3,004,575
		•

COMMON STOCKS (96.2%)* cont.	Shares	Value
Containers and packaging (1.6%)		
Myers Industries, Inc.	49,000	\$1,029,000
Silgan Holdings, Inc. \$	34,958	1,450,757
Diversified consumer services (0.9%)		2,479,757
Universal Technical Institute, Inc. †	208,245	1,351,510
Electric utilities (1.0%)		1,351,510
Otter Tail Corp.	31,300	1,527,753
Electrical equipment (0.9%)		1,527,753
nVent Electric PLC (United Kingdom)	41,400	1,293,336
		1,293,336
Electronic equipment, instruments, and compor Jabil, Inc.		1 611 402
Methode Electronics, Inc.	27,727 31,600	1,611,493 1,555,036
methode Electronics, inc.	31,000	3,166,529
Energy equipment and services (1.4%)	600.657	
Newpark Resources, Inc. †	623,657	2,157,853
Entertainment (0.7%)		2,157,853
Lions Gate Entertainment Corp. Class A†s	53,284	1,102,979
Equity real estate investment trusts (REITs) (5.39	%)	1,102,979
Alpine Income Property Trust, Inc. R	81,772	1,555,303
Diversified Healthcare Trust R	308,428	1,289,229
Global Medical REIT, Inc. R	81,700	1,205,892
RLJ Lodging Trust R	85,200	1,297,596
Spirit Realty Capital, Inc. R	31,799	1,521,264
Xenia Hotels & Resorts, Inc. † R	66,500	1,245,545
Food and staples retail (0.9%)		8,114,829
Andersons, Inc. (The)	45,500	1,389,115
Health-care equipment and supplies (1.2%)		1,389,115
Lantheus Holdings, Inc. †	67,000	1,851,880
Health-care providers and services (4.7%)		1,851,880
Acadia Healthcare Co., Inc. †	21,309	1,337,140
Brookdale Senior Living, Inc. †	285,466	2,255,181
RadNet, Inc. †	59,800	2,014,662
Tivity Health, Inc. †	60,900	1,602,279
Hotels, restaurants, and leisure (1.7%)		7,209,262
Brinker International, Inc. †	18,100	1,119,485
Everi Holdings, Inc. †	58,500	1,458,990
Harrach and described (4, 60%)		2,578,475
Household durables (1.6%) Hooker Furniture Corp.	38,400	1,330,176
Purple Innovation, Inc. †	40,587	1,071,903
·	10,001	2,402,079
Insurance (1.2%)	20.000	
Argo Group International Holdings, Ltd. (Bermuda) Heritage Insurance Holdings, Inc.	20,900 79,189	1,083,247
Tierrage insurance riotuings, inc.	13,103	1,762,689
IT Services (3.1%)		
Hackett Group, Inc. (The)	78,600	1,416,372
IBEX, Ltd.†	98,050	1,913,936
Unisys Corp. †	54,300	1,374,333 4,704,641
Leisure products (2.1%)	05	
Vista Outdoor, Inc. †	68,808	3,184,434
Machinery (3.5%)		3,184,434
Columbus McKinnon Corp./NY	30,059	1,450,046
Crane Co.	14,400	1,330,128

COMMON STOCKS (96.2%)* cont.	Shares	Value
Machinery cont.		
Hillenbrand, Inc.	24,600	\$1,084,368
Mayville Engineering Co., Inc. †	70,235	1,412,426
Metals and mining (3.4%)		5,276,968
Alamos Gold, Inc. Class A (Canada)	151,200	1,156,680
Commercial Metals Co.	46,300	1,422,336
Ferroglobe Representation & Warranty		
Insurance Trust †	102,740	_
Major Drilling Group International, Inc. (Canada) †	294,300	2,034,649
Olympic Steel, Inc.	16,800	493,752
Mortgage real estate investment trusts (REITs) (1	L.8%)	5,107,417
Ladder Capital Corp. R	109,500	1,263,630
New Residential Investment Corp. R	135,000	1,429,650
Multi-utilities (0.9%)		2,693,280
Unitil Corp.	26,100	1,382,517
Oil and and announce blaft rate (C.00()		1,382,517
Oil, gas, and consumable fuels (6.0%) Arch Resources, Inc. † \$	20,200	1,150,996
CNX Resources Corp. † \$	126,500	1,727,990
Magnolia Oil & Gas Corp. Class A† \$	159,625	2,494,939
Scorpio Tankers, Inc. \$	67,144	1,480,525
SM Energy Co. \$	91,000	2,241,330
	,	9,095,780
Paper and forest products (1.0%)	07.047	
Verso Corp. Class A	87,847	1,554,892
Pharmaceuticals (1.1%)		1,554,892
Antares Pharma, Inc. †	370,700	1,616,252
Professional services (—%)		1,616,252
BancTec, Inc. 144A CVR F	152,299	_
Semiconductors and semiconductor equipment	:(2.2%)	_
Photronics, Inc. †	127,900	1,689,559
Rambus, Inc. †	69,200	1,640,732
Software (1.00()		3,330,291
Software (1.0%) j2 Global, Inc. † \$	10,900	1,499,295
	10,300	1,499,295
Specialty retail (2.5%)	14.000	
Citi Trends, Inc. †	14,600	1,270,200
Shoe Carnival, Inc. \$ Zumiez, Inc. †	16,700 28,700	1,195,553
Zumiez, mc.	20,700	1,406,013 3,871,766
Textiles, apparel, and luxury goods (1.5%)		3,671,700
Unifi, Inc. †	94,844	2,310,400
Thrifts and mortgage finance (4.4%)		2,310,400
Bridgewater Bancshares, Inc. †	82,500	1,332,375
Meta Financial Group, Inc.	30,700	1,554,341
MGIC Investment Corp.	73,500	999,600
Premier Financial Corp.	46,326	1,316,122
Walker & Dunlop, Inc.	14,200	1,482,196
		6,684,634

COMMON STOCKS (96.2	2%)* cont.		Shares	Value
Trading companies ar	nd distributo	ors (3.8%)		
Custom Truck One Sou	rce, Inc.		131,890	\$1,255,593
Custom Truck One Sou	rce, Inc. † \$		38,639	367,843
Karat Packaging, Inc. †			65,850	1,341,365
MRC Global, Inc. †			129,500	1,217,300
Titan Machinery, Inc. †			51,200	1,584,128
				5,766,229
Total common stocks	(cost \$104,5	05,723)		\$146,139,998
INVESTMENT COMPANI	IES (2.5%)*		Shares	Value
Crescent Capital BDC, I	nc.		23,948	\$449,264
PennantPark Investme	nt Corp.		236,800	1,581,824
Saratoga Investment C	orp. S		35,533	954,772
Trinity Capital, Inc.			57,322	830,023
Total investment com	panies (cost	\$3,155,670)		\$3,815,883
	Expiration			
WARRANTS (-%)*†	date	Strike price	Warrants	Value
Custom Truck One				
Source, Inc.	1/1/25	\$11.50	25,714	\$59,705
Total warrants (cost \$	32,914)			\$59,705
SHORT-TERM INVESTM	ENTS (9.3%)	•	Shares	Value
Putnam Cash Collatera	l Pool, LLC 0.0)9% d	13,930,521	\$13,930,521
Putnam Short Term Inv	estment Fun	d Class P 0.099	% L 176,241	176,241
Total short-term inves	stments (cos	st \$14,106,762	2)	\$14,106,762
Total investments (co	st \$121,801,	069)		\$164,122,348

Key to holding's abbreviations

CVR Contingent Value Rights

Notes to the fund's portfolio

Unless noted otherwise, the notes to the fund's portfolio are for the close of the fund's reporting period, which ran from January 1, 2021 through June 30, 2021 (the reporting period). Within the following notes to the portfolio, references to "Putnam Management" represent Putnam Investment Management, LLC, the fund's manager, an indirect wholly-owned subsidiary of Putnam Investments, LLC and references to "ASC 820" represent Accounting Standards Codification 820 Fair Value Measurements and Disclosures.

- * Percentages indicated are based on net assets of \$151,888,762.
- † This security is non-income-producing.
- d 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.
- F This security is valued by Putnam Management at fair value following procedures approved by the Trustees. Securities are classified as Level 3 for ASC 820 based on the securities' valuation inputs (Note 1).
- L Affiliated company (Note 5). The rate quoted in the security description is the annualized 7-day yield of the fund at the close of the reporting period.
- R Real Estate Investment Trust.
- Security on loan, in part or in entirety, at the close of the reporting period (Note 1). 144A after the name of an issuer represents securities exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers.

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

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

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

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

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

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

	Valuation inputs				
Investments in securities:	Level 1	Level 2	Level 3		
Common stocks*:					
Communication services	\$1,102,979	\$—	\$—		
Consumer discretionary	17,057,267	_	_		
Consumer staples	1,389,115	_	_		
Energy	11,253,633	_	_		
Financials	35,803,444	_	_		
Health care	10,677,394	_	_		
Industrials	29,961,813	_	**		
Information technology	14,074,361	_	_		
Materials	13,794,893	_	_		
Real estate	8,114,829	_	_		
Utilities	2,910,270	_	_		
Total common stocks	146,139,998	_	_		
Investment companies	3,815,883	_	_		
Warrants	59,705		_		
Short-term investments	_	14,106,762	_		
Totals by level	\$150,015,586	\$14,106,762	\$-		

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

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

^{**} Value of Level 3 Security is \$—.

Statement of assets and liabilities

6/30/21 (Unaudited)

Assets

Investment in securities, at value, including \$13,710,985 of securities on loan (Note 1):	
Unaffiliated issuers (identified cost \$107,694,307)	\$150,015,586
Affiliated issuers (identified cost \$14,106,762) (Notes 1 and 5)	14,106,762
Cash	370,166
Dividends, interest and other receivables	223,890
Receivable for shares of the fund sold	1,171,765
Receivable for investments sold	1,263,674
Total assets	167,151,843
Liabilities	
Payable for investments purchased	926,943
Payable for shares of the fund repurchased	149,480
Payable for compensation of Manager (Note 2)	76,747
Payable for custodian fees (Note 2)	15,930
Payable for investor servicing fees (Note 2)	17,580
Payable for Trustee compensation and expenses (Note 2)	83,491
Payable for administrative services (Note 2)	413
Payable for distribution fees (Note 2)	20,778
Collateral on securities loaned, at value (Note 1)	13,930,521
Other accrued expenses	41,198
Totalliabilities	15,263,081
Net assets	\$151,888,762
Represented by	
Paid-in capital (Unlimited shares authorized) (Notes 1 and 4)	\$117,891,085
Total distributable earnings (Note 1)	33,997,677
Total — Representing net assets applicable to capital shares outstanding	\$151,888,762
Computation of net asset value Class IA	
Net assets	\$51,129,834
Number of shares outstanding	3,745,524
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$13.65
Computation of net asset value Class IB	
Net assets	\$100,758,928
Number of shares outstanding	7,510,128
Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding)	\$13.42

Statement of operationsSix months ended 6/30/21 (Unaudited)

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Dividends (net of foreign tax of \$2,413)	\$923,565
Interest (including interest income of \$579 from investments in affiliated issuers) (Note 5)	592
Securities lending (net of expenses) (Notes 1 and 5)	3,459
Total investment income	927,616
Expenses	
Compensation of Manager (Note 2)	425,908
Investor servicing fees (Note 2)	49,126
Custodian fees (Note 2)	6,481
Trustee compensation and expenses (Note 2)	3,056
Distribution fees (Note 2)	115,585
Administrative services (Note 2)	1,245
Other	31,988
Total expenses	633,389
Expense reduction (Note 2)	(13)
Net expenses	633,376
Net investment income	294,240
Realized and unrealized gain (loss)	
Net realized gain (loss) on:	
Securities from unaffiliated issuers (Notes 1 and 3)	19,503,798
Foreign currency transactions (Note 1)	(199)
Written options (Note 1)	39,875
Total net realized gain	19,543,474
Change in net unrealized appreciation on:	
Securities from unaffiliated issuers	20,465,073
Total change in net unrealized appreciation	20,465,073
Net gain on investments	40,008,547
Net increase in net assets resulting from operations	\$40,302,787

Statement of changes in net assets

	Six months ended 6/30/21*	Year ended 12/31/20
Increase (decrease) in net assets		
Operations:		
Net investment income	\$294,240	\$1,134,021
Net realized gain (loss) on investments	19,543,474	(10,071,019
Change in net unrealized appreciation of investments	20,465,073	14,084,857
Net increase in net assets resulting from operations	40,302,787	5,147,859
Distributions to shareholders (Note 1):		
From ordinary income		
Net investment income		
Class IA	(422,047)	(432,081
Class IB	(708,959)	(701,871
Decrease from capital share transactions (Note 4)	(6,486,710)	(8,319,600
Total increase (decrease) in net assets	32,685,071	(4,305,693
Net assets:		
Beginning of period	119,203,691	123,509,384
End of period	\$151,888,762	\$119,203,691

^{*} Unaudited.

Financial highlights (For a common share outstanding throughout the period)

INVESTMENT OPERATIONS:					LESS DIS	STRIBUTI	ONS:			RATIOSAND	SUPPLEN	IENTAL D	ATA:
Period ended	Net asset value, beginning of period	Net investment income (loss)*	Netrealized and unrealized gain (loss) on investments	Total from investment operations	From net investment income	From net realized gain on investments	Total distributions	Net asset value, end of period	Total return at net asset value (%) b.c	Net assets, end of period (in thousands)	Ratio of expenses to average net assets (%6)% d	Ratio of net investment income (loss) to average net assets (%)	Portfolio turnover (%)
ClassIA											,		
6/30/21†	\$10.18	.04	3.54	3.58	(.11)	_	(.11)	\$13.65	35.31*	\$51,130	.37*	.29*	51*
12/31/20	9.96	.11	.22	.33	(.11)	_	(.11)	10.18	4.12	38,990	.80	1.32	119
12/31/19	9.05	.13	1.94	2.07	(.12)	(1.04)	(1.16)	9.96	24.12	40,671	.80	1.34	164
12/31/18	16.41	.18	(2.62)	(2.44)	(.11)	(4.81)	(4.92)	9.05	(19.42)	38,310	.85	1.51	561
12/31/17	15.94	.10	1.15	1.25	(.15)	(.63)	(.78)	16.41	8.15	55,886	.82	.66	398
12/31/16	14.16	.15	3.28	3.43	(.21)	(1.44)	(1.65)	15.94	27.70	59,872	.78 e	1.14 e	67
Class IB													
6/30/21†	\$10.01	.02	3.48	3.50	(.09)	_	(.09)	\$13.42	35.07*	\$100,759	.49*	.17*	51*
12/31/20	9.77	.08	.25	.33	(.09)	_	(.09)	10.01	3.96	80,214	1.05	1.07	119
12/31/19	8.89	.10	1.91	2.01	(.09)	(1.04)	(1.13)	9.77	23.82	82,839	1.05	1.09	164
12/31/18	16.20	.15	(2.59)	(2.44)	(.06)	(4.81)	(4.87)	8.89	(19.66)	74,196	1.10	1.26	561
12/31/17	15.75	.06	1.13	1.19	(.11)	(.63)	(.74)	16.20	7.87	104,031	1.07	.41	398
12/31/16	13.99	.12	3.25	3.37	(.17)	(1.44)	(1.61)	15.75	27.49	110,569	1.03 e	.89 e	67

^{*} 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.

 $^{{\}tt c} \ \, {\tt The\, charges\, and\, expenses\, at\, the\, insurance\, company\, separate\, account\, level\, are\, not\, reflected.}$

d Includes amounts paid through expense offset and 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 waiver, the expenses of each class reflect a reduction of less than 0.01% as a percentage of average net assets.

Notes to financial statements 6/30/21 (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, 2021 through June 30, 2021.

Putnam VT Small Cap 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 appreciation. The fund invests mainly in common stocks of small U.S. companies, with a focus on value stocks. Value stocks are issued by companies 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. Under normal circumstances, Putnam Management invests at least 80% of the fund's net assets in companies of a size similar to those in the Russell 2000 Value Index. This policy may be changed only after 60 days' notice to shareholders. As of March 31, 2021, the index was composed of companies having market capitalizations of between approximately \$67.7 million and \$18.2 billion. 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

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

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

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

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

Note 1 — Significant accounting policies

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

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

Security valuation Portfolio securities and other investments are valued using policies and procedures adopted by the Board of Trustees. The Trustees have formed a Pricing Committee to oversee the implementation of these procedures

and have delegated responsibility for valuing the fund's assets in accordance with these procedures to Putnam Management. Putnam Management has established an internal Valuation Committee that is responsible for making fair value determinations, evaluating the effectiveness of the pricing policies of the fund and reporting to the Pricing Committee.

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

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

Many securities markets and exchanges outside the U.S. close prior to the scheduled close of the New York Stock Exchange and therefore the closing prices for securities in such markets or on such exchanges may not fully reflect events that occur after such close but before the scheduled close of the New York Stock Exchange. Accordingly, on certain days, the fund will fair value certain foreign equity securities taking into account multiple factors including movements in the U.S. securities markets, currency valuations and comparisons to the valuation of American Depository Receipts, exchange-traded funds and futures contracts. The foreign equity securities, which would generally be classified as Level 1 securities, will be transferred to Level 2 of the fair value hierarchy when they are valued at fair value. The number of days on which fair value prices will be used will depend on market activity and it is possible that fair value prices will be used by the fund to a significant extent. Securities quoted in foreign currencies, if any, are translated into U.S. dollars at the current exchange rate. 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, if any, is recorded on the accrual basis. Dividend income, net of any applicable withholding taxes, is recognized on the ex-dividend date except that certain dividends from foreign securities, if any, are recognized as soon as the fund is informed of the ex-dividend date. Non-cash dividends, if any, are recorded at the fair value of the securities received. Dividends representing a return of capital or capital gains, if any, are reflected as a reduction of cost and/or as a realized gain.

Options contracts The fund uses options contracts to hedge against changes in values of securities it owns, owned or expects to own.

The potential risk to the fund is that the change in value of options contracts may not correspond to the change in value of the hedged instruments. In addition, losses may arise from changes in the value of the underlying instruments if there is an illiquid secondary market for the contracts, if interest or exchange rates move unexpectedly or if the counterparty to the contract is unable to perform. Realized gains and losses on purchased options are included in realized gains and losses on investment securities. If a written call option is exercised, the premium originally received is recorded as an addition to sales proceeds. If a written put option is exercised, the premium originally received is recorded as a reduction to the cost of investments.

Exchange-traded options are valued at the last sale price or, if no sales are reported, the last bid price for purchased options and the last ask price for written options. OTC traded options are valued using prices supplied by dealers.

Options on swaps are similar to options on securities except that the premium paid or received is to buy or grant the right to enter into a previously agreed upon interest rate or credit default contract. Forward premium swap option contracts include premiums that have extended settlement dates. The delayed settlement of the premiums is factored into the daily valuation of the option contracts. In the case of interest rate cap and floor contracts, in return for a premium, ongoing payments between two parties are based on interest rates exceeding a specified rate, in the case of a cap contract, or falling below a specified rate in the case of a

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

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

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

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

At the close of the reporting period, the fund did not have a net liability position on open derivative contracts subject to the Master 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 received cash collateral of \$13,930,521 and the value of securities loaned amounted to \$13,710,985.

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 Bank Funding Rate for the committed line of credit and 1.30% plus the higher of (1) the Federal Funds rate and (2) the Overnight Bank Funding Rate for the uncommitted line of credit. A closing fee equal to 0.04% of the committed line of credit and 0.04% of the uncommitted line of credit has been paid by the participating funds. In addition, a commitment fee of 0.21% per annum on any unutilized portion of the committed line of credit is allocated to the participating funds based on their relative net assets and paid quarterly. During the reporting period, the fund had no borrowings against these arrangements.

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

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

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 \$126,172,118, resulting in gross unrealized appreciation and depreciation of \$39,146,899 and \$1,196,669, respectively, or net unrealized appreciation of \$37,950,230.

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 39.5% 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:

0.780% of the first \$5 billion, 0.730% of the next \$5 billion, 0.680% of the next \$10 billion, of the next \$10 billion, 0.630% of the next \$50 billion, 0.580% 0.560% of the next \$50 billion, 0.550% of the next \$100 billion and 0.545% 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 0.302% of the fund's average net assets.

Putnam Management has contractually agreed, through April 30, 2023, 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	\$16,512
Class IB	32,614
Total	\$49,126

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

reporting period, the fund's expenses were reduced by \$13 under the expense offset arrangements.

Each Independent Trustee of the fund receives an annual Trustee fee, of which \$95, 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)	\$69,208,849	\$78,529,885
U.S. government securities (Long-term)	_	_
Total	\$69,208,849	\$78,529,885

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 6/30/21		Year ended 12/31/20		Six months ended 6/30/21		Year ended 12/31/20	
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount
Shares sold	530,119	\$6,655,973	458,766	\$3,514,741	756,056	\$9,639,524	1,224,186	\$7,732,249
Shares issued in connection with reinvestment of distributions	33,791	422,047	73,608	432,081	57,733	708,959	121,431	701,871
	563,910	7,078,020	532,374	3,946,822	813,789	10,348,483	1,345,617	8,434,120
Shares repurchased	(646,606)	(8,140,634)	(786,293)	(6,371,834)	(1,320,121)	(15,772,579)	(1,804,478)	(14,328,708)
Net decrease	(82,696)	\$(1,062,614)	(253,919)	\$(2,425,012)	(506,332)	\$(5,424,096)	(458,861)	\$(5,894,588)

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 12/31/20	Purchase cost	Sale proceeds	Investmentincome	Shares outstanding and fair value as of 6/30/21
Short-term investments					
Putnam Cash Collateral Pool, LLC*	\$7,786,756	\$37,596,328	\$31,452,563	\$4,265	\$13,930,521
Putnam Short Term Investment Fund**	933,987	24,130,013	24,887,759	579	176,241
Total Short-term investments	\$8,720,743	\$61,726,341	\$56,340,322	\$4,844	\$14,106,762

^{*}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.

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.

Beginning in January 2020, global financial markets have experienced, and may continue to experience, significant volatility resulting from the spread of a virus known as a continue to experience, significant volatility resulting from the spread of a virus known as a continue to experience, significant volatility resulting from the spread of a virus known as a continue to experience of the cCovid-19. The outbreak of Covid-19 has resulted in travel and border restrictions, quarantines, supply chain disruptions, lower consumer demand, and general market uncertainty. The effects of Covid-19 have adversely affected, and may continue to adversely affect, the global economy, the economies of certain nations, and individual issuers, all of which may negatively impact the fund's performance.

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:

Written equity option contracts (contract amount)	\$—*
Warrants (number of warrants)	26,000

 $^{^*}$ For the reporting period, there were no holdings at the end of each fiscal quarter and the transactions were considered minimal.

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

	Asset derivatives		Liability derivatives	
Derivatives not accounted for as hedging instruments under ASC 815	Statement of assets and liabilities location	Fair value	Statement of assets and liabilities location	Fair value
Equity contracts	Investments	\$59,705	Payables	\$-
Total		\$59,705		\$-

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	Options	Total
Equity contracts	\$39,875	\$39,875
Total	\$39,875	\$39,875

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	\$35,020	\$35,020
Total	\$35,020	\$35,020

^{**}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.

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 considered any possible changes to the annual contract review materials furnished to the Contract Committee during the course of the previous year's review and, as applicable, identified those changes to Putnam Management. 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 2021, 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 2021, 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 2021 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, 2021. (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 any

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 certain exceptions primarily involving newly launched or repositioned funds, the current fee arrangements under the vast majority of the funds' 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. Under its management contract, your fund has the benefit of breakpoints in its management fee schedule that provide shareholders with reduced fee levels as assets under management in the Putnam family of funds increase. 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. (Two 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 schedule for your fund would be appropriate at this time.

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 and the funds' investor servicing agent, Putnam Investor Services, Inc. ("PSERV"), have implemented expense limitations that were in effect during your fund's fiscal year ending in 2020. These expense limitations were: (i) a contractual expense limitation applicable to specified open-end funds, including your fund, 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, investmentrelated 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 2020. Putnam Management and PSERV have agreed to maintain these expense limitations until at least April 30, 2023. The support of Putnam Management and PSERV 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 fees), 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 third quintile in total expenses (excluding any applicable 12b-1 fees) as of December 31, 2020. 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, 2020 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 the revenues, expenses and profitability of Putnam Management and its affiliates, 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 for the Putnam funds, including the fee schedule for your fund, represented reasonable compensation for the services being provided and represented an appropriate sharing between fund shareholders and Putnam Management of any 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 services provided and fees charged by Putnam Management and its affiliates to other clients, including defined benefit pension and profit-sharing plans, sub-advised mutual funds, private funds sponsored by affiliates of Putnam Management, model-only separately managed accounts and Putnam Management's newly launched exchange-traded funds. This information included, in cases where a 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 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 marketplaces. The

Trustees considered the fact that in many cases fee rates across different asset classes are higher on average for mutual funds than for other clients, and the Trustees also considered 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 Putnam Management's 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 individual portfolio managers and with senior management 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, in the aggregate, The Putnam Funds generally performed well in 2020, which Putnam Management characterized as a challenging year with significant volatility and varied market dynamics. On an asset-weighted basis, the Putnam funds ranked in the second quartile of their peers as determined by Lipper Inc. ("Lipper") for the year ended December 31, 2020 and, on an asset-weighted-basis, delivered a gross return that was 2.3% ahead of their benchmarks in 2020. In addition to the performance of the individual Putnam funds, the Trustees considered, as they had in prior years, the performance of The Putnam Fund complex versus competitor fund complexes. In this regard, the Trustees observed that The Putnam Funds' relative performance, as reported in the Barron's/Lipper Fund Families survey, continued to be exceptionally strong over the long term, with The Putnam Funds ranking as the 3rd best performing mutual fund complex out of 44 complexes for the ten-year period, with 2020 marking the fourth consecutive year that The Putnam Funds have ranked in the top ten fund complexes for the ten-year period. The Trustees noted that The Putnam Funds' performance was solid over the one- and five-year periods, with The Putnam Funds ranking 22nd out of 53 complexes and 14th out of 50 complexes, respectively. In addition to the Barron's/Lipper Fund Families Survey, the Trustees also considered the funds' ratings assigned by Morningstar Inc., noting that 26 of the funds were four- or five-star rated at the end of 2020 (representing an increase of four funds year-over-year) and that this included seven funds that had achieved a five-star rating (representing an increase of two funds year-over-year). They also noted, however, the disappointing investment performance of some funds for periods ended December 31, 2020 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 and evaluate whether additional actions to address areas of underperformance may be 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 comparisons of those returns to 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 peer group (Lipper VP (Underlying Funds) — Small-Cap Value Funds) for the one-year, three-year and five-year periods ended December 31, 2020 (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
3rd	3rd	3rd

Over each of the one-year, three-year and five-year periods ended December 31, 2020, there were 36 funds 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 considered Putnam Management's continued efforts to support fund performance through certain initiatives, including structuring compensation for portfolio managers to enhance accountability for fund performance, emphasizing accountability in the portfolio management process, and affirming its commitment to a fundamentaldriven approach to investing. The Trustees noted further that Putnam Management had made selective hires and internal promotions in 2020 to strengthen its investment team.

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. The Trustees indicated their continued intent to monitor regulatory and industry developments in this area with the assistance of their Brokerage Committee. In addition, with the assistance of their Brokerage Committee, the Trustees 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 PSERV and its distributor's contract 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 investor services provided by PSERV 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, 2021, are available in the Individual Investors section of putnam.com and on the Securities and Exchange Commission's (SEC) website at www.sec.gov. If you have questions about finding forms on the SEC's website, you may call the SEC at 1-800-SEC-0330. You may also obtain the Putnam funds' proxy voting guidelines and procedures at no charge by calling Putnam's Shareholder Services at 1-800-225-1581.

Fund portfolio holdings

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

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

Liquidity risk management program

Putnam, as the administrator of the fund's liquidity risk management program (appointed by the Board of Trustees), presented the most recent annual report on the program to the Trustees in April 2021. The report covered the structure of the program, including the program documents and related policies and procedures adopted to comply with Rule 22e-4 under the Investment Company Act of 1940, and reviewed the operation of the program from January 2020 through December 2020. The report included a description of the annual liquidity assessment of the fund that Putnam performed in November 2020. The report noted that there were no material compliance exceptions identified under Rule 22e-4 during the period. The report included a review of the governance of the program and the methodology for classification of the fund's investments. The report also included a discussion of liquidity monitoring during the period, including during the market liquidity challenges caused by the Covid-19 pandemic, and the impact those challenges had on the liquidity of the fund's investments. Putnam concluded that the program has been operating effectively and adequately to ensure compliance with Rule 22e-4.

Fund information

Investment Manager

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

Investment Sub-Advisor

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

Marketing Services

Putnam Retail Management 100 Federal Street Boston, MA 02110

Investor Servicing Agent

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

Custodian

State Street Bank and Trust Company

Legal Counsel

Ropes & Gray LLP

Trustees

Kenneth R. Leibler, Chair Liaquat Ahamed Ravi Akhoury Barbara M. Baumann Katinka Domotorffv Catharine Bond Hill Paul L. Joskow George Putnam, III Robert L. Reynolds Manoj P. Singh Mona K. Sutphen

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