Pioneer Variable Contracts Trust

Pioneer Real Estate Shares

VCT Portfolio

Class I and II Shares

Annual Report | December 31, 2022

Please refer to your contract prospectus to determine the applicable share class offered under your contract.



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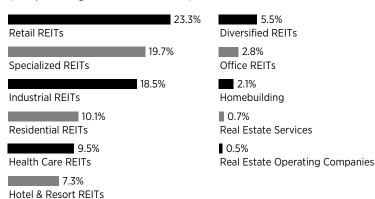
This report is authorized for distribution only when preceded or accompanied by a prospectus for the Portfolio being offered.

Pioneer Variable Contracts Trust files a complete schedule of portfolio holdings with the Securities and Exchange Commission for the first and third quarters of each fiscal year as an exhibit to its reports on Form N-PORT. Shareholders may view the filed Form N-PORT by visiting the Commission's web site at https://www.sec.gov.

Portfolio Update 12/31/22

Sector Distribution

(As a percentage of total investments)*



5 Largest Holdings

(As a percentage of total investments)*

1. Prologis, Inc. 9.14%

2. Gaming and Leisure Properties, Inc. 5.76

3. Public Storage 5.41

4. Kimco Realty Corp. 4.99

5. Realty Income Corp. 4.95

* Excludes short-term investments and all derivative contracts except for options purchased. The Portfolio is actively managed, and current holdings may be different. The holdings listed should not be considered recommendations to buy or sell any securities.

Performance Update 12/31/22

Prices and Distributions

 Net Asset Value per Share
 12/31/22
 12/31/21

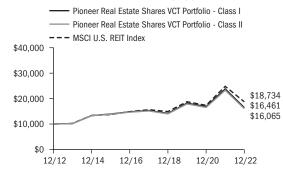
 Class I
 \$6.69
 \$10.65

 Class II
 \$6.73
 \$10.69

Not

Performance of a \$10,000 Investment

The following chart shows the change in value of an investment made in Class I and Class II shares of **Pioneer Real Estate Shares VCT Portfolio** at net asset value during the periods shown, compared to that of the Morgan Stanley Capital International (MSCI) U.S. REIT Index. Portfolio returns are based on net asset value and do not reflect any applicable insurance fees or surrender charges.



The MSCI U.S. REIT Index is an unmanaged, widely used index comprising a broad representation of the most actively traded real estate trusts, and is designed to be a measure of real estate equity performance. Index returns are calculated monthly, assume reinvestment of dividends and do not reflect any fees, expenses or sales charges. It is not possible to invest directly in an index.

Average Annual Total Returns

(As of December 31, 2022)

	Class I	Class II	MSCI U.S. REIT Index
10 Years	5.11%	4.86%	6.48%
5 Years	1.45%	1.19%	3.69%
1 Year	-30.84%	-31.02%	-24.51%

All total returns shown assume reinvestment of distributions at net asset value.

The performance table does not reflect the deduction of taxes that a shareowner would pay on distributions or the redemption of shares.

Effective January 1, 2018, the Adviser became directly responsible for portfolio management of the Portfolio. The performance shown for periods prior to January 1, 2018 reflects the investment strategies employed during those periods.

Call 1-800-688-9915 or visit www.amundi.com/us for the most recent month-end performance results. Current performance may be lower or higher than the performance data quoted.

The performance data quoted represents past performance, which is no guarantee of future results. Investment return and principal value will fluctuate, and shares, when redeemed, may be worth more or less than their original cost.

The returns for the Portfolio do not reflect the deduction of expenses associated with variable products, such as mortality and expense risk charges, separate account charges, and sales charges. These expenses would reduce the overall returns shown.

Performance results reflect any applicable expense waivers in effect during the periods shown. Without such waivers, performance would be lower. Waivers may not be in effect for all portfolios. Certain fee waivers are contractual through a specified period. Otherwise, fee waivers can be rescinded at any time. See the prospectus and financial statements for more information.

Comparing Ongoing Portfolio Expenses

As a shareowner in the Portfolio, you incur two types of costs:

- (1) ongoing costs, including management fees, distribution and/or service (12b-1) fees, and other Portfolio expenses; and
- (2) transaction costs, including sales charges (loads) on purchase payments.

This example is intended to help you understand your ongoing expenses (in dollars) of investing in the Portfolio and to compare these costs with the ongoing costs of investing in other mutual funds offered through your variable annuity contract. The example is based on an investment of \$1,000 at the beginning of the Portfolio's latest six-month period and held throughout the six months.

Using the Tables

Actual Expenses

The first table below provides information about actual account values and actual expenses. You may use the information in this table, together with the amount you invested, to estimate the expenses that you paid over the period as follows:

- (1) Divide your account value by 1,000 Example: an 8,600 account value \div 1,000 = 8.6
- (2) Multiply the result in (1) above by the corresponding share class's number in the third row under the heading entitled "Expenses Paid During Period" to estimate the expenses you paid on your account during this period.

Expenses Paid on a \$1,000 Investment in Pioneer Real Estate Shares VCT Portfolio

Based on actual returns from July 1, 2022 through December 31, 2022.

Share Class	I	<u> </u>
Beginning Account Value on 7/1/22	\$1,000.00	\$1,000.00
Ending Account Value (after expenses) on 12/31/22	\$ 926.40	\$ 925.00
Expenses Paid During Period*	\$ 6.46	\$ 7.67

^{*} Expenses are equal to the Portfolio's annualized net expense ratio of 1.33% and 1.58% for Class I and Class II shares, respectively, multiplied by the average account value over the period, multiplied by 184/365 (to reflect the one-half year period).

Hypothetical Example for Comparison Purposes

The table below provides information about hypothetical account values and hypothetical expenses based on the Portfolio's actual expense ratio and an assumed rate of return of 5% per year before expenses, which is not the Portfolio's actual return. The hypothetical account values and expenses may not be used to estimate the actual ending account balance or expenses you paid for the period.

You may use this information to compare the ongoing costs of investing in the Portfolio and other variable annuities. To do so, compare this 5% hypothetical example with the 5% hypothetical examples that appear in the shareholder reports of the other variable annuities.

Please note that the expenses shown in the tables are meant to highlight your ongoing costs only and do not reflect any transaction costs, such as sales charges (loads) that are charged at the time of the transaction. Therefore, the table below is useful in comparing ongoing costs only and will not help you determine the relative total costs of owning different variable annuities. In addition, if these transaction costs were included, your costs would have been higher.

Expenses Paid on a \$1,000 Investment in Pioneer Real Estate Shares VCT Portfolio

Based on a hypothetical 5% return per year before expenses, reflecting the period from July 1, 2022 through December 31, 2022.

Share Class	1	
Beginning Account Value on 7/1/22	\$1,000.00	\$1,000.00
Ending Account Value (after expenses) on 12/31/22	\$1,018.50	\$1,017.24
Expenses Paid During Period*	\$ 6.77	\$ 8.03

^{*} Expenses are equal to the Portfolio's annualized net expense ratio of 1.33% and 1.58% for Class I and Class II shares, respectively, multiplied by the average account value over the period, multiplied by 184/365 (to reflect the one-half year period).

Portfolio Management Discussion 12/31/22

Call 1-800-688-9915 or visit www.amundi.com/us for the most recent month-end performance results. Current performance may be lower or higher than the performance data quoted.

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Performance results reflect any applicable expense waivers in effect during the periods shown. Without such waivers, performance would be lower. Waivers may not be in effect for all portfolios. Certain fee waivers are contractual through a specified period. Otherwise, fee waivers can be rescinded at any time. See the prospectus and financial statements for more information.

Note to Shareholders: The Trustees of Pioneer Variable Contracts Trust have authorized the liquidation of Pioneer Real Estate Shares VCT Portfolio. It is anticipated that the Portfolio will be liquidated on or about April 28, 2023.

In the following interview, Raymond Haddad discusses the market environment for real estate investment trusts (REITs) and other real estate-related investments and the factors that influenced the performance of Pioneer Real Estate Shares VCT Portfolio during the 12-month reporting period ended December 31, 2022. Mr. Haddad, a vice president and portfolio manager at Amundi Asset Management US, Inc. (Amundi US), is responsible for the day-to-day management of the Portfolio.

Q: How did the Portfolio perform during the 12-month period ended December 31, 2022?

A: Pioneer Real Estate Shares VCT Portfolio's Class I shares returned -30.84% at net asset value during the 12-month period ended December 31, 2022, and Class II shares returned -31.02%, while the Portfolio's benchmark, the Morgan Stanley Capital International (MSCI) US Real Estate Investment Trust (REIT) Index*, returned -24.51%.

Q: How would you describe the market environment for investing in US REITs during the 12-month period ended December 31, 2022?

A: The Russian-Ukraine war, supply-chain challenges, high inflation, and the Federal Reserve's (Fed's) aggressive tightening of monetary policy weighed on investor sentiment during the 12-month period, leading to significant losses in equity markets, and especially for REITs.

To tackle the stubbornly high inflation, the Fed increased the target range of its benchmark federal funds rate seven times in 2022, taking the target from near-zero to 4.25%-4.50%. The rate-hiking cycle by the Fed included four unusually large 0.75% interest-rate increases. REITs, along with the broader equity markets, did regain some ground in the fourth quarter, due to signs that inflation was moderating, and to optimism among investors that the Fed's pace of monetary tightening could slow heading into 2023. However, that optimism faded as hawkish rhetoric from the Fed during December heightened investors' fears about a potential recession.

Amid the bearish market sentiment, most major asset classes posted negative returns for the 12-month period. Calendar 2022 was the worst year on record for US bonds, in fact, with the Bloomberg US Aggregate Bond Index, a broad measure of US fixed-income markets, finishing well into

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negative territory, at -13.01%. Stocks also struggled, with the Standard & Poor's 500 Index, a broad measure of US equity-market performance, returning -18.11% for the 12-month period.

Amid the deceleration in fundamentals, the US real estate market experienced a slowdown in merger-and-acquisition activity during the period. REITs faced idiosyncratic challenges as well. Historically, investors have often turned to REITs as a hedge against inflation, due to the ability of most REIT subsectors to pass along higher costs to their tenants. However, recession worries have led to fears of rising unemployment and to questions about the ability of tenants to meet their rent obligations. Additionally, REITs are a capital-intensive business, and so investors have been worried that higher interest rates could weigh on future earnings.

Q: Which of your investments or strategies detracted from the Portfolio's benchmark-relative performance during the 12-month period ended December 31, 2022?

A: The Portfolio's positioning within two REIT subsectors accounted for much of the benchmark-relative underperformance for the 12-month period. An overweight position in the underperforming warehouse (industrial) REIT sector detracted the most from benchmark-relative returns. Despite business fundamentals remaining resilient throughout the period, warehouses have struggled because they have been perceived as higher-risk, long-duration assets. (Long-duration assets, from an equity standpoint, require more time than short-duration assets to produce income, and higher interest rates can erode the value of future earnings for longer-duration equities.) In addition, an overweight position in self-storage REITS detracted from the Portfolio's relative results. Historically, the self-storage sector has proved resilient during economic slowdowns, but the collapse in housing starts has had the effect of curtailing the ability of people to move, thus, in our view, reducing demand for the self-storage space.

Individual Portfolio positions that were key detractors from benchmark-relative returns during the period included East Group Properties (EGP) and National Storage Affiliates (NSA). As with the industrial REIT sector in general, the Portfolio's investment in EGP underperformed, due to worries about Amazon.com's slowing warehouse leasing needs. NSA, a self-storage REIT focused on secondary and tertiary markets, experienced a slowdown in rental-rate increases in 2022, after a stronger showing in 2021.

Q: Which of your investments or strategies aided the Portfolio's benchmark-relative performance during the 12-month period ended December 31, 2022?

A: The top positive contributor to the Portfolio's benchmark-relative returns during the 12-month period was an overweight position in Gaming & Leisure Properties (GLPI), which outperformed. GLPI owns casino properties leased to gaming companies. Casinos benefited during the period from a solid consumer and from Consumer Price Index escalators in their tenant contracts, which tended to shield them from the effects of rising inflation. Another key positive contributor to the Portfolio's relative returns for the period was an investment in multifamily REIT, Preferred Apartment Communities (APTS). The shares rallied on an announcement that the company was to be acquired at a substantional premium over APTS's closing stock price the day before the deal was announced.

Portfolio Management Discussion 12/31/22 (continued)

A Word About Risk:

All investments are subject to risk, including the possible loss of principal. In the past several years, financial markets have experienced increased volatility and heightened uncertainty. The market prices of securities may go up or down, sometimes rapidly or unpredictably, due to general market conditions, such as real or perceived adverse economic, political, or regulatory conditions, recessions, inflation, changes in interest or currency rates, lack of liquidity in the bond markets, the spread of infectious illness or other public health issues, armed conflict including Russia's military invasion of Ukraine, sanctions against Russia, other nations or individuals or companies and possible countermeasures, market disruptions caused by tariffs, trade disputes or other government actions, or adverse investor sentiment. These conditions may continue, recur, worsen or spread.

The Portfolio invests in REIT securities, the value of which can fall for a variety of reasons, such as declines in rental income, fluctuating interest rates, poor property management, environmental liabilities, uninsured damage, increased competition, or changes in real estate tax laws.

The Portfolio may invest in fewer than 40 securities and, as a result, its performance may be more volatile than the performance of other portfolios holding more securities.

Investing in foreign and/or emerging markets securities involves risks relating to interest rates, currency exchange rates, economic, and political conditions.

The market price of securities may fluctuate when interest rates change. When interest rates rise, the prices of fixed income securities in the Portfolio will generally fall. Conversely, when interest rates fall, the prices of fixed income securities in the Portfolio will generally rise.

The Portfolio continues to hold a benchmark-relative underweight exposure to office REITs. We have limited the Portfolio's office REIT exposure due to structural issues facing that segment of the market, including increased capital intensity, labor and property-tax cost increases, and work-from-home trends. Consequently, we have de-emphasized investing the Portfolio in the large-office REIT segment, which underperformed during the 12-month period, and so that positioning benefited relative returns. Finally, the Portfolio's relative performance also benefited from our decision to avoid investing in many of the poorer-performing REITs in the apartment sector, given our preference for non-coastal REITs versus coastal REITs.

Q: Did the Portfolio have exposure to any derivative securities during the 12-month period ended December 31, 2022?

A: No, the Portfolio had no exposure to derivative investments during the 12-month period.

Q: What is your outlook for REITs as 2023 begins?

A: Looking ahead, we believe the US real estate market faces a challenging macroeconomic environment, with high, but slowly moderating inflation. That backdrop may force the Fed to keep interest rates higher for a longer period of time, in our view. With investors concerned about a coming recession, the general health of the consumer, and tenant credit quality across several subsectors of the REIT universe, we think the outlook for the asset class remains cloudy. We feel those are legitimate concerns that could contribute to a further slowdown in earnings.

Stock selection will continue to be key in this environment, in our view, and we have remained focused on investing the Portfolio in what we believe to be high-quality, higher-growth companies, and in economically resilient sectors within the MSCI US REIT Index, many of which experienced valuation corrections during 2022.

Please refer to the Schedule of Investments on pages 7 to 8 for a full listing of Portfolio securities.

Past performance is no guarantee of future results.

Any information in this shareholder report regarding market or economic trends or the factors influencing the Portfolio's historical or future performance are statements of opinion as of the date of this report.

Schedule of Investments 12/31/22

Shares		Value
	UNAFFILIATED ISSUERS — 100.0%	
	COMMON STOCKS — 97.3% of Net Assets	
	Equity Real Estate Investment Trusts (REITs) — 94.1%	
7,574	Agree Realty Corp.	\$ 537,224
7,344	Alexander & Baldwin, Inc.	137,553
1,257	Alexander's, Inc.	276,615
6,826	American Homes 4 Rent, Class A	205,736
18,477	Apartment Investment and Management Co., Class A	131,556
44,515	Apple Hospitality REIT, Inc.	702,447
8,996	Armada Hoffler Properties, Inc.	103,454
24,082	Brixmor Property Group, Inc.	545,939
1,681	Camden Property Trust	188,070
7,469	CareTrust REIT, Inc.	138,774
11,899	Chatham Lodging Trust	146,001
4,440	Corporate Office Properties Trust	115,174
3,937	EastGroup Properties, Inc.	582,912
13,512	Equity Commonwealth	337,395
7,117	Equity LifeStyle Properties, Inc.	459,758
13,507	Essential Properties Realty Trust, Inc.	317,009
4,836	Extra Space Storage, Inc.	711,762
18,088	Gaming and Leisure Properties, Inc.	942,204
5,171	Getty Realty Corp.	175,038
9,119	Healthpeak Properties, Inc.	228,613
2,922	Innovative Industrial Properties, Inc.	296,145
12,267	Iron Mountain, Inc.	611,510
38,531	Kimco Realty Corp.	816,087
10,642	Kite Realty Group Trust	224,014
4,207	Mid-America Apartment Communities, Inc.	660,457
8,430	National Health Investors, Inc.	440,215
19,247	Omega Healthcare Investors, Inc.	537,954
7,691	Phillips Edison & Co., Inc.	244,881
13,254	Prologis, Inc.	1,494,123
3,156	Public Storage	884,280
2,280	Rayonier, Inc.	75,149
12,775	Realty Income Corp.	810,318
11,873	Rexford Industrial Realty, Inc.	648,741
4,293	Ryman Hospitality Properties, Inc.	351,082
4,340	Universal Health Realty Income Trust	207,148
9,218	Urstadt Biddle Properties, Inc., Class A	174,681
4,408	WP Carey, Inc.	344,485
	Total Equity Real Estate Investment Trusts (REITs)	<u>\$15,804,504</u>
	Household Durables — 2.0%	
3,764	Lennar Corp., Class A	\$ 340,642
	Total Household Durables	\$ 340,642
	Real Estate Management & Development — 1.2%	
1,568(a)	CBRE Group, Inc., Class A	\$ 120,673
1,669(a)	FRP Holdings, Inc.	89,892
	Total Real Estate Management & Development	\$ 210,565
	TOTAL COMMON STOCKS	
	(Cost \$15,089,736)	\$16,355,711

Schedule of Investments 12/31/22 (continued)

Shares	SHORT TERM INVESTMENTS — 2.7% of Net Assets	Value
	Open-End Fund — 2.7%	
445,260(b)	Dreyfus Government Cash Management,	
	Institutional Shares, 4.19%	\$ 445,260
		\$ 445,260
	TOTAL SHORT TERM INVESTMENTS	
	(Cost \$445,260)	\$ 445,260
	TOTAL INVESTMENTS IN UNAFFILIATED ISSUERS — 100.0%	
	(Cost \$15,534,996)	\$16,800,971
	OTHER ASSETS AND LIABILITIES — 0.0%	\$ 2,517
	NET ASSETS — 100.0%	\$16,803,488

- (a) Non-income producing security.
- (b) Rate periodically changes. Rate disclosed is the 7-day yield at December 31, 2022.

Purchases and sales of securities (excluding short-term investments) for the year ended December 31, 2022, aggregated \$26,247,791 and \$29,176,490, respectively.

At December 31, 2022, the net unrealized appreciation on investments based on cost for federal tax purposes of \$15,573,862 was as follows:

Aggregate gross unrealized appreciation for all investments in which there is an excess of value over tax cost	\$2,221,233
Aggregate gross unrealized depreciation for all investments in which there is an excess of tax cost over value	(994,124)
Net unrealized appreciation	\$1,227,109

Various inputs are used in determining the value of the Portfolio's investments. These inputs are summarized in the three broad levels below.

- Level 1 unadjusted quoted prices in active markets for identical securities.
- Level 2 other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risks, etc.). See Notes to Financial Statements Note 1A.
- Level 3 significant unobservable inputs (including the Adviser's own assumptions in determining fair value of investments). See Notes to Financial Statements Note 1A.

The following is a summary of the inputs used as of December 31, 2022, in valuing the Portfolio's investments:

Total Investments in Securities	\$16,800,971	\$-	\$-	\$16,800,971
Open-End Fund	445,260			445,260
Common Stocks	\$16,355,711	\$—	\$-	\$16,355,711
	Level 1	Level 2	Level 3	Total

During the year ended December 31, 2022, there were no transfers in or out of Level 3.

Statement of Assets and Liabilities 12/31/22

ASSETS:	
Investments in unaffiliated issuers, at value (cost \$15,534,996)	\$16,800,971
Receivables —	
Portfolio shares sold	219
Dividends	75,104
Interest	917
Other assets	470
Total assets	\$16,877,681
LIABILITIES:	
Payables —	
Portfolio shares repurchased	\$ 13,423
Professional fees	49,785
Printing expense	5,040
Shareowner fees	3,675
Management fees	1,471
Administrative expenses	96
Distribution fees	336
Accrued expenses	367
Total liabilities	\$ 74,193
NET ASSETS:	
Paid-in capital	\$15,594,641
Distributable earnings	1,208,847
Net assets	\$16,803,488
NET ASSET VALUE PER SHARE:	
No par value (unlimited number of shares authorized)	
Class I (based on \$4,538,355/678,778 shares)	\$ 6.69
Class II (based on \$12,265,133/1,823,615 shares)	\$ 6.73

Statement of Operations

FOR THE YEAR ENDED 12/31/22		
INVESTMENT INCOME: Dividends from unaffiliated issuers Interest from unaffiliated issuers	\$571,919 302	
Total Investment Income		\$ 572,221
EXPENSES:		
Management fees	\$166,945	
Administrative expenses	12,322	
Distribution fees		
Class II	37,884	
Custodian fees	160	
Professional fees	74,557	
Printing expense	13,993	
Officers' and Trustees' fees	7,943	
Insurance expense	190	
Miscellaneous	1,427	
Total expenses		\$ 315,421
Net investment income		\$ 256,800

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Net investment income	φ 250,000
REALIZED AND UNREALIZED GAIN (LOSS) ON INVESTMENTS: Net realized gain (loss) on:	
Investments in unaffiliated issuers	\$ 72,070
Change in net unrealized appreciation (depreciation) on: Investments in unaffiliated issuers	\$(8,552,073)
Net realized and unrealized gain (loss) on investments	\$(8,480,003)
Net decrease in net assets resulting from operations	(8,223,203)

Statements of Changes in Net Assets

			Year Ended 12/31/22	Year Ended 12/31/21
FROM OPERATIONS:				
Net investment income (loss)			\$ 256,800	\$ 71,618
Net realized gain (loss) on investment Change in net unrealized appreciation		vestments	72,070 (8,552,073)	4,153,400 4,292,421
Net increase (decrease) in net ass	· ·		\$ (8,223,203)	\$ 8,517,439
· · ·		erations	φ (0,223,203) ————————————————————————————————————	φ 0,517,459
Class I (\$0.70 and \$0.10 per share, r Class II (\$0.67 and \$0.09 per share,	espectively)		\$ (478,419) (1,193,811)	\$ (71,428) (183,859)
Total distributions to shareown	ers		\$ (1,672,230)	\$ (255,287)
FROM PORTFOLIO SHARE TRAI	NSACTIONS:			
Net proceeds from sales of shares			\$ 1,608,577	\$ 1,865,535
Reinvestment of distributions			1,672,230	255,287
Cost of shares repurchased			(4,650,572)	(4,721,070)
Net decrease in net assets resulting	_	re transactions	\$ (1,369,765)	\$(2,600,248)
Net increase (decrease) in net as	ssets		\$(11,265,198)	\$ 5,661,904
NET ASSETS:			¢ 20 050 505	¢22.406.702
Beginning of year			\$ 28,068,686	\$22,406,782
End of year			\$ 16,803,488	\$28,068,686
	Year Ended 12/31/22 Shares	Year Ended 12/31/22 Amount	Year Ended 12/31/21 Shares	Year Ended 12/31/21 Amount
Class I				
Shares sold	102,132	\$ 739,181	46,759	\$ 423,803
Reinvestment of distributions	67,552	478,419	7,612	71,428
Less shares repurchased	(198,092)	(1,493,230)	(118,656)	(1,054,900)
Net decrease	(28,408)	\$ (275,630)	(64,285)	\$ (559,669)
Class II				
Shares sold	108,577	\$ 869,396	154,473	\$ 1,441,732
Reinvestment of distributions	168,247	1,193,811	19,660	183,859
Less shares repurchased	(375,366)	(3,157,342)	(406,146)	(3,666,170)
Net decrease	(98,542)	\$(1,094,135)	(232,013)	\$(2,040,579)

Financial Highlights

	Year Ended 12/31/22	Year Ended 12/31/21	Year Ended 12/31/20	Year Ended 12/31/19	Year Ended 12/31/18
Class I Net asset value, beginning of period	\$ 10.65	\$ 7.63	\$11.35	\$12.55	\$15.40
Increase (decrease) from investment operations: Net investment income (loss)(a) Net realized and unrealized gain (loss) on investments	0.12 (3.38)	0.04 3.08	0.06 (1.15)	0.16 3.16	0.25 (1.26)
Net increase (decrease) from investment operations	\$ (3.26)	\$ 3.12	\$(1.09)	\$ 3.32	<u>\$(1.01</u>)
Distributions to shareowners: Net investment income Net realized gain Tax return of capital	(0.16) (0.54) —	(0.03) (0.07) —	(0.06) (2.48) (0.09)	(0.19) (4.33) —	(0.25) (1.59) —
Total distributions	\$ (0.70)	\$(0.10)	\$(2.63)	\$ (4.52)	\$(1.84)
Net increase (decrease) in net asset value	\$ (3.96)	\$ 3.02	\$(3.72)	\$(1.20)	\$(2.85)
Net asset value, end of period	\$ 6.69	\$10.65	\$ 7.63	\$11.35	\$12.55
Total return(b) Ratio of net expenses to average net assets Ratio of net investment income (loss) to average net assets Portfolio turnover rate Net assets, end of period (in thousands)	(30.84)% 1.33% 1.41% 128% \$ 4,538	41.05% 1.35% 0.49% 106% \$7,530	(7.34)% 1.46% 0.77% 155% \$5,885	28.16% 1.33% 1.29% 125% \$6,910	(7.24)% 1.37% 1.76% 154% \$6,210

⁽a) The per-share data presented above is based on the average shares outstanding for the period presented.

NOTE: The above financial highlights do not reflect the deduction of non-portfolio expenses associated with variable insurance products, such as mortality and expense risk charges, separate account charges, and sales charges.

⁽b) Assumes initial investment at net asset value at the beginning of each period, reinvestment of all distributions and the complete redemption of the investment at net asset value at the end of each period.

Class II	Year Ended 12/31/22	Year Ended 12/31/21	Year Ended 12/31/20	Year Ended 12/31/19	Year Ended 12/31/18
Net asset value, beginning of period	\$ 10.69	\$ 7.67	\$ 11.40	\$ 12.58	\$ 15.44
Increase (decrease) from investment operations: Net investment income (loss)(a) Net realized and unrealized gain (loss) on investments	0.10 (3.39)	0.02	0.04 (1.16)	0.13 3.17	0.21 (1.27)
Net increase (decrease) from investment operations	\$ (3.29)	\$ 3.11	\$ (1.12)	\$ 3.30	\$ (1.06)
Distributions to shareowners: Net investment income Net realized gain Tax return of capital	(0.13) (0.54)	(0.02) (0.07) —	(0.04) (2.48) (0.09)	(0.15) (4.33) —	(0.21) (1.59) —
Total distributions	\$ (0.67)	\$ (0.09)	<u>\$ (2.61)</u>	\$ (4.48)	<u>\$ (1.80)</u>
Net increase (decrease) in net asset value	\$ (3.96)	\$ 3.02	\$ (3.73)	\$ (1.18)	\$ (2.86)
Net asset value, end of period	\$ 6.73	\$ 10.69	\$ 7.67	\$ 11.40	\$ 12.58
Total return(b) Ratio of net expenses to average net assets Ratio of net investment income (loss) to average net assets Portfolio turnover rate Net assets, end of period (in thousands)	(31.02)% 1.58% 1.16% 128% \$12,265	40.75% 1.60% 0.22% 106% \$20,539	(7.62)% 1.71% 0.51% 155% \$16,522	27.91% 1.58% 1.04% 125% \$20,167	(7.54)% 1.62% 1.51% 154% \$18,393

⁽a) The per-share data presented above is based on the average shares outstanding for the period presented.

NOTE: The above financial highlights do not reflect the deduction of non-portfolio expenses associated with variable insurance products, such as mortality and expense risk charges, separate account charges, and sales charges.

⁽b) Assumes initial investment at net asset value at the beginning of each period, reinvestment of all distributions, the complete redemption of the investment at net asset value at the end of each period and no sales charges. Total return would be reduced if sales charges were taken into account.

Notes to Financial Statements 12/31/22

1. Organization and Significant Accounting Policies

Pioneer Real Estate Shares VCT Portfolio (the "Portfolio") is one of 8 portfolios comprising Pioneer Variable Contracts Trust (the "Trust"), a Delaware statutory trust. The Portfolio is registered under the Investment Company Act of 1940, as amended (the "1940 Act") as a diversified, open-end management investment company. The investment objective of the Portfolio is to pursue long-term capital growth, with current income as a secondary objective.

The Portfolio offers two classes of shares designated as Class I and Class II shares. Each class of shares represents an interest in the same portfolio of investments of the Portfolio and has identical rights (based on relative net asset values) to assets and liquidation proceeds. Share classes can bear different rates of class-specific fees and expenses, such as transfer agent and distribution fees. Differences in class-specific fees and expenses will result in differences in net investment income and, therefore, the payment of different dividends from net investment income earned by each class. The Amended and Restated Declaration of Trust of the Trust gives the Board of Trustees the flexibility to specify either per-share voting or dollar-weighted voting when submitting matters for shareowner approval. Under per-share voting, each share of a class of the Portfolio is entitled to one vote. Under dollar-weighted voting, a shareowner's voting power is determined not by the number of shares owned, but by the dollar value of the shares on the record date. Each share class has exclusive voting rights with respect to matters affecting only that class, including with respect to the distribution plan for that class. There is no distribution plan for Class I shares.

Portfolio shares may be purchased only by insurance companies for the purpose of funding variable annuity and variable life insurance contracts or by qualified pension and retirement plans.

Amundi Asset Management US, Inc., an indirect, wholly owned subsidiary of Amundi and Amundi's wholly owned subsidiary, Amundi USA, Inc., serves as the Portfolio's investment adviser (the "Adviser"). Amundi Distributor US, Inc., an affiliate of the Adviser, serves as the Portfolio's distributor (the "Distributor").

Effective August 19, 2022, the Portfolio is required to comply with Rule 18f-4 under the 1940 Act, which governs the use of derivatives by registered investment companies. Rule 18f-4 permits funds to enter into derivatives transactions (as defined in Rule 18f-4) and certain other transactions notwithstanding the restrictions on the issuance of "senior securities" under Section 18 of the 1940 Act. Rule 18f-4 requires a fund to establish and maintain a comprehensive derivatives risk management program, appoint a derivatives risk manager and comply with a relative or absolute limit on fund leverage risk calculated based on value-at-risk ("VaR"), unless the portfolio uses derivatives in only a limited manner (a "limited derivatives user"). The Portfolio is currently a limited derivatives user for purposes of Rule 18f-4.

The Portfolio is an investment company and follows investment company accounting and reporting guidance under U.S. Generally Accepted Accounting Principles ("U.S. GAAP"). U.S. GAAP requires the management of the Portfolio to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of income, expenses and gain or loss on investments during the reporting period. Actual results could differ from those estimates.

The following is a summary of significant accounting policies followed by the Portfolio in the preparation of its financial statements:

A. Security Valuation

The net asset value of the Portfolio is computed once daily, on each day the New York Stock Exchange ("NYSE") is open, as of the close of regular trading on the NYSE.

Equity securities which may include restricted securities that have traded on an exchange are valued by using the last sale price on the principal exchange where they are traded. Equity securities which may include restricted securities that have not traded on the date of valuation, or securities for which sale prices are not available, generally are valued using the mean between the last bid and asked prices or, if both last bid and asked prices are not available, at the last quoted bid price. Last sale and bid and asked prices are provided by independent third party pricing services. In the case of equity securities which may include restricted securities not traded on an exchange, prices are typically determined by independent third party pricing services using a variety of techniques and methods.

The value of foreign securities is translated into U.S. dollars based on foreign currency exchange rate quotations supplied by a third party pricing source. Trading in non-U.S. equity securities is substantially completed each day at various times prior to the close of the NYSE. The values of such securities used in computing the net asset value of the Portfolio's shares are determined as of such times. The Adviser may use a fair value model developed by an independent pricing service to value non-U.S. equity securities.

Shares of open-end registered investment companies (including money market mutual funds) are valued at such funds' net asset value.

Securities for which independent pricing services or broker-dealers are unable to supply prices or for which market prices and/or quotations are not readily available or are considered to be unreliable are valued by a fair valuation team comprised of certain personnel of the Adviser. Effective September 8, 2022, the Adviser is designated as the valuation designee for the Portfolio pursuant to Rule 2a-5 under the 1940 Act. The Adviser's fair valuation team is responsible for monitoring developments that may impact fair valued securities.

Inputs used when applying fair value methods to value a security may include credit ratings, the financial condition of the company, current market conditions and comparable securities. The Portfolio may use fair value methods if it is determined that a significant event has occurred after the close of the exchange or market on which the security trades and prior to the determination of the Portfolio's net asset value. Examples of a significant event might include political or economic news, corporate restructurings, natural disasters, terrorist activity or trading halts. Thus, the valuation of the Portfolio's securities may differ significantly from exchange prices, and such differences could be material.

B. Investment Income and Transactions

Dividend income is recorded on the ex-dividend date, except that certain dividends from foreign securities where the ex-dividend date may have passed are recorded as soon as the Portfolio becomes aware of the ex-dividend data in the exercise of reasonable diligence.

Interest income, including interest on income-bearing cash accounts, is recorded on the accrual basis. Dividend and interest income are reported net of unrecoverable foreign taxes withheld at the applicable country rates and net of income accrued on defaulted securities.

Interest and dividend income payable by delivery of additional shares is reclassified as PIK (payment-in-kind) income upon receipt and is included in interest and dividend income, respectively.

Security transactions are recorded as of trade date. Gains and losses on sales of investments are calculated on the identified cost method for both financial reporting and federal income tax purposes.

C. Foreign Currency Translation

The books and records of the Portfolio are maintained in U.S. dollars. Amounts denominated in foreign currencies are translated into U.S. dollars using current exchange rates.

Net realized gains and losses on foreign currency transactions, if any, represent, among other things, the net realized gains and losses on foreign currency exchange contracts, disposition of foreign currencies and the difference between the amount of income accrued and the U.S. dollars actually received. Further, the effects of changes in foreign currency exchange rates on investments are not segregated on the Statement of Operations from the effects of changes in the market prices of those securities, but are included with the net realized and unrealized gain or loss on investments.

D. Federal Income Taxes

It is the Portfolio's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute all of its net taxable income and net realized capital gains, if any, to its shareowners. Therefore, no provision for federal income taxes is required. As of December 31, 2022, the Portfolio did not accrue any interest or penalties with respect to uncertain tax positions, which, if applicable, would be recorded as an income tax expense on the Statement of Operations. Tax returns filed within the prior three years remain subject to examination by federal and state tax authorities.

A portion of the dividend income recorded by the Portfolio is from distributions by publicly traded Real Estate Investment Trusts ("REITs"), and such distributions for tax purposes may also consist of capital gains and return of capital. The actual return of capital and capital gains portions of such distributions will be determined by formal notifications from the REITs subsequent to the calendar year-end. Distributions received from the REITs that are determined to be a return of capital are recorded by the Portfolio as a reduction of the cost basis of the securities held and those determined to be capital gain are reflected as such on the Statement of Operations.

The amount and character of income and capital gain distributions to shareowners are determined in accordance with federal income tax rules, which may differ from U.S. GAAP. Distributions in excess of net investment income or net realized gains are temporary over distributions for financial statement purposes resulting from differences in the

Notes to Financial Statements 12/31/22 (continued)

recognition or classification of income or distributions for financial statement and tax purposes. Capital accounts within the financial statements are adjusted for permanent book/tax differences to reflect tax character, but are not adjusted for temporary differences.

At December 31, 2022, the Portfolio deferred \$18,262 of long-term Post-October losses, which will be recognized by the Fund as occurring at the start of the next fiscal year ending December 31, 2023.

The tax character of distributions paid during the years ended December 31, 2022 and December 31, 2021, was as follows:

	2022	2021
Distributions paid from:		
Ordinary income	\$ 256,800	\$ 68,929
Long-term capital gains	1,415,430	186,358
Total	\$1,672,230	\$255,287

The following shows the components of distributable earnings (losses) on a federal income tax basis at December 31, 2022:

	2022
Distributable earnings/(losses):	
Net unrealized appreciation	\$1,227,109
Qualified late year loss deferral	(18,262)
Total	\$1,208,847

The difference between book basis and tax basis unrealized appreciation is attributable to the tax deferral of losses on wash sales.

E. Portfolio Shares and Class Allocations

The Portfolio records sales and repurchases of its shares as of trade date. Distribution fees for Class II shares are calculated based on the average daily net asset value attributable to Class II shares of the Portfolio (see Note 5). Class I shares do not pay distribution fees.

Income, common expenses (excluding transfer agent and distribution fees) and realized and unrealized gains and losses are calculated at the Portfolio level and allocated daily to each class of shares based on its respective percentage of the adjusted net assets at the beginning of the day.

All expenses and fees paid to the Portfolio's transfer agent for its services are allocated between the classes of shares based on the number of accounts in each class and the ratable allocation of related out-of-pocket expenses (see Note 4).

Dividends and distributions to shareowners are recorded on the ex-dividend date. Distributions paid by the Portfolio with respect to each class of shares are calculated in the same manner and at the same time, except that net investment income dividends to Class I and Class II shares can reflect different transfer agent and distribution expense rates.

F. Risks

The value of securities held by the Portfolio may go up or down, sometimes rapidly or unpredictably, due to general market conditions, such as real or perceived adverse economic, political or regulatory conditions, recessions, the spread of infectious illness or other public health issues, inflation, changes in interest rates, armed conflict including Russia's military invasion of Ukraine, sanctions against Russia, other nations or individuals or companies and possible countermeasures, lack of liquidity in the bond markets or adverse investor sentiment. In the past several years, financial markets have experienced increased volatility, depressed valuations, decreased liquidity and heightened uncertainty. These conditions may continue, recur, worsen or spread. Recently, inflation and interest rates have increased and may rise further. These circumstances could adversely affect the value and liquidity of the Portfolio's investments, impair the Portfolio's ability to satisfy redemption requests, and negatively impact the Portfolio's performance. Raising the ceiling on U.S. government debt has become increasingly politicized. Any failure to increase the ceiling on U.S. government debt could lead to a default on U.S. government obligations, with unpredictable consequences for economies and markets.

The global pandemic of the novel coronavirus respiratory disease designated COVID-19 has resulted in major disruption to economies and markets around the world, including the United States. Global financial markets have experienced extreme

volatility and severe losses, and trading in many instruments has been disrupted. Liquidity for many instruments has been greatly reduced for periods of time. Some sectors of the economy and individual issuers have experienced particularly large losses. These circumstances may continue to affect adversely the value and liquidity of the Portfolio's investments. Following Russia's invasion of Ukraine, Russian securities have lost all, or nearly all, their market value. Other securities or markets could be similarly affected by past or future political, geopolitical or other events or conditions.

Governments and central banks, including the U.S. Federal Reserve, have taken extraordinary and unprecedented actions to support local and global economies and the financial markets. These actions have resulted in significant expansion of public debt, including in the U.S. The consequences of high public debt, including its future impact on the economy and securities markets, may not be known for some time.

The U.S. and other countries are periodically involved in disputes over trade and other matters, which may result in tariffs, investment restrictions and adverse impacts on affected companies and securities. For example, the U.S. has imposed tariffs and other trade barriers on Chinese exports, has restricted sales of certain categories of goods to China, and has established barriers to investments in China. Trade disputes may adversely affect the economies of the U.S. and its trading partners, as well as companies directly or indirectly affected and financial markets generally. If the political climate between the U.S. and China does not improve or continues to deteriorate, if China were to attempt unification of Taiwan by force, or if other geopolitical conflicts develop or get worse, economies, markets and individual securities may be severely affected both regionally and globally, and the value of the Portfolio's assets may go down.

The Portfolio's investments in foreign markets and countries with limited developing markets may subject the Portfolio to a greater degree of risk than investments in a developed market. These risks include disruptive political or economic conditions, military conflicts and sanctions, terrorism, sustained economic downturns, financial instability, less liquid trading markets, extreme price volatility, currency risks, reduction of government or central bank support, inadequate accounting standards, tariffs, tax disputes or other tax burdens, nationalization or expropriation of assets, and the imposition of adverse governmental laws, arbitrary application of laws and regulations or lack of rule of law, and investment and repatriation restrictions. Lack of information and less market regulation also may affect the value of these securities. Withholding and other non-U.S. taxes may decrease the Portfolio's return. Non-U.S. issuers may be located in parts of the world that have historically been prone to natural disasters. Investing in depositary receipts is subject to many of the same risks as investing directly in non-U.S. issuers. Depositary receipts may involve higher expenses and may trade at a discount (or premium) to the underlying security.

Russia launched a large-scale invasion of Ukraine on February 24, 2022. In response to the military action by Russia, various countries, including the U.S., the United Kingdom, and European Union issued broad-ranging economic sanctions against Russia and Belarus and certain companies and individuals. Since then, Russian securities have lost all, or nearly all, their market value, and many other issuers, securities and markets have been adversely affected. The United States and other countries may impose sanctions on other countries, companies and individuals in light of Russia's military invasion. The extent and duration of the military action or future escalation of such hostilities, the extent and impact of existing and future sanctions, market disruptions and volatility, and the result of any diplomatic negotiations cannot be predicted. These and any related events could have a significant impact on the value and liquidity of certain Portfolio investments, on Portfolio performance and the value of an investment in the Portfolio, particularly with respect to securities and commodities, such as oil, natural gas and food commodities, as well as other sectors with exposure to Russian issuers or issuers in other countries affected by the invasion, and are likely to have collateral impacts on market sectors globally.

Because the Portfolio may invests a substantial portion of its assets in REITs, the Portfolio may be subject to certain risks associated with direct investments in REITs. REITs may be affected by changes in the value of their underlying properties and by defaults by borrowers or tenants. REITs depend generally on their ability to generate cash flow to make distributions to shareowners, and certain REITs have self-liquidation provisions by which mortgages held may be paid in full and distributions of capital return may be made at any time. In addition, the performance of a REIT may be affected by its failure to qualify for tax-free pass-through of income under the Internal Revenue Code or its failure to maintain exemption from registration under the Investment Company Act of 1940.

The Portfolio may invest in fewer than 40 securities and, as a result, its performance may be more volatile than the performance of other portfolios holding more securities.

With the increased use of technologies such as the Internet to conduct business, the Portfolio is susceptible to operational, information security and related risks. While the Portfolio's Adviser has established business continuity

Notes to Financial Statements 12/31/22 (continued)

plans in the event of, and risk management systems to prevent, limit or mitigate, such cyber-attacks, there are inherent limitations in such plans and systems, including the possibility that certain risks have not been identified. Furthermore, the Portfolio cannot control the cybersecurity plans and systems put in place by service providers to the Portfolio such as the Portfolio's custodian and accounting agent, and the Portfolio's transfer agent. In addition, many beneficial owners of Portfolio shares hold them through accounts at broker-dealers, retirement platforms and other financial market participants over which neither the Portfolio nor the Adviser exercises control. Each of these may in turn rely on service providers to them, which are also subject to the risk of cyber-attacks. Cybersecurity failures or breaches at the Adviser or the Portfolio's service providers or intermediaries have the ability to cause disruptions and impact business operations, potentially resulting in financial losses, interference with the Portfolio's ability to calculate its net asset value, impediments to trading, the inability of Portfolio shareowners to effect share purchases, redemptions or exchanges or receive distributions, loss of or unauthorized access to private shareowner information and violations of applicable privacy and other laws, regulatory fines, penalties, reputational damage, or additional compliance costs. Such costs and losses may not be covered under any insurance. In addition, maintaining vigilance against cyber-attacks may involve substantial costs over time, and system enhancements may themselves be subject to cyber-attacks.

The Portfolio's prospectus contains unaudited information regarding the Portfolio's principal risks. Please refer to that document when considering the Portfolio's principal risks.

2. Management Agreement

The Adviser manages the Portfolio. Management fees payable under the Portfolio's Investment Management Agreement with the Adviser are calculated daily and paid monthly at the annual rate of 0.80% of the Portfolio's average daily net assets up to \$500 million and 0.75% of the Portfolio's average daily net assets over \$500 million. For the year ended December 31, 2022, the effective management fee was equivalent to 0.80% of the Portfolio's average daily net assets.

In addition, under the management and administration agreements, certain other services and costs, including accounting, regulatory reporting and insurance premiums, are paid by the Portfolio as administrative reimbursements.

3. Compensation of Officers and Trustees

The Portfolio pays an annual fee to its Trustees. The Adviser reimburses the Portfolio for fees paid to the Interested Trustees. Except for the chief compliance officer, the Portfolio does not pay any salary or other compensation to its officers. The Portfolio pays a portion of the chief compliance officer's compensation for his services as the Portfolio's chief compliance officer. Amundi US pays the remaining portion of the chief compliance officer's compensation. For the year ended December 31, 2022, the Portfolio paid \$7,943 in Officers' and Trustees' compensation, which is reflected on the Statement of Operations as Officers' and Trustees' fees. At December 31, 2022, on its Statement of Assets and Liabilities, the Portfolio did not have a payable for Trustees' fees and had a payable for administrative expenses of \$96, which includes the payable for Officers' compensation.

4. Transfer Agent

BNY Mellon Investment Servicing (US) Inc. serves as the transfer agent to the Portfolio at negotiated rates. Transfer agent fees and payables shown on the Statement of Operations and the Statement of Assets and Liabilities, respectively, include sub-transfer agent expenses incurred through the Portfolio's omnibus relationship contracts.

5. Distribution Plan

The Portfolio has adopted a distribution plan (the "Plan") pursuant to Rule 12b-1 under the 1940 Act with respect to Class II shares. Pursuant to the Plan, the Portfolio pays the Distributor a distribution fee of 0.25% of the average daily net assets attributable to Class II shares to compensate the Distributor for (1) distribution services and (2) personal and account maintenance services performed and expenses incurred by the Distributor in connection with the Portfolio's Class II shares.

6. Subsequent Event

On January 27, 2023, the Board of Trustees of the Portfolio approved the liquidation of the Portfolio, which is anticipated to take place on or about April 28, 2023. All shares of the Portfolio that are outstanding on the liquidation date will be redeemed automatically as of the close of business on that date. Written notification of the Portfolio's liquidation, including specific details about the transaction, has been mailed to all shareholders of the Portfolio.

Ernst + Young LLP

Report of Independent Registered Public Accounting Firm

To the Board of Trustees of Pioneer Variable Contracts Trust and the Shareholders of Pioneer Real Estate Shares VCT Portfolio:

Opinion on the Financial Statements

We have audited the accompanying statement of assets and liabilities of Pioneer Real Estate Shares VCT Portfolio (the "Portfolio") (one of the portfolios constituting Pioneer Variable Contracts Trust (the "Trust")), including the schedule of investments, as of December 31, 2022, and the related statement of operations for the year then ended, the statements of changes in net assets for each of two years in the period then ended, the financial highlights for each of five years in the period then ended and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Pioneer Real Estate Shares VCT Portfolio (one of the portfolios constituting Pioneer Variable Contracts Trust) at December 31, 2022, the results of its operations for the year then ended, the changes in its net assets for each of the two years in the period then ended, and its financial highlights for each of the five years in the period then ended in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Trust's management. Our responsibility is to express an opinion on the Portfolio's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Trust in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Trust is not required to have, nor were we engaged to perform, an audit of the Trust's internal control over financial reporting. As part of our audits, we are required to obtain an understanding of internal control over financial reporting, but not for the purpose of expressing an opinion on the effectiveness of the Trust's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our procedures included confirmation of securities owned as of December 31, 2022, by correspondence with the custodian, brokers and others; when replies were not received from brokers and others, we performed other auditing procedures. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

We have served as the auditor of one or more investment companies in the Pioneer family of funds since 2017.

Boston, Massachusetts March 1, 2023

Pioneer Real Estate Shares VCT Portfolio

Pioneer Variable Contracts Trust

Additional Information (unaudited)

The Portfolio designated \$1,415,430 as long-term capital gains distributions during the year ended December 31, 2022. Distributable long-term gains are based on net realized long-term gains determined on a tax basis and may differ from such amounts for financial reporting purposes.

Approval of Renewal of Investment Management Agreement

Amundi Asset Management US, Inc. ("Amundi US") serves as the investment adviser to Pioneer Real Estate Shares VCT Portfolio (the "Portfolio") pursuant to an investment management agreement between Amundi US and the Portfolio. In order for Amundi US to remain the investment adviser of the Portfolio, the Trustees of the Portfolio, including a majority of the Portfolio's Independent Trustees, must determine annually whether to renew the investment management agreement for the Portfolio.

The contract review process began in January 2022 as the Trustees of the Portfolio agreed on, among other things, an overall approach and timeline for the process. Contract review materials were provided to the Trustees in March 2022, July 2022 and September 2022. In addition, the Trustees reviewed and discussed the Portfolio's performance at regularly scheduled meetings throughout the year, and took into account other information related to the Portfolio provided to the Trustees at regularly scheduled meetings, in connection with the review of the Portfolio's investment management agreement.

In March 2022, the Trustees, among other things, discussed the memorandum provided by Portfolio counsel that summarized the legal standards and other considerations that are relevant to the Trustees in their deliberations regarding the renewal of the investment management agreement, and reviewed and discussed the qualifications of the investment management teams for the Portfolio, as well as the level of investment by the Portfolio's portfolio managers in the Portfolio. In July 2022, the Trustees, among other things, reviewed the Portfolio's management fees and total expense ratios, the financial statements of Amundi US and its parent companies, profitability analyses provided by Amundi US, and analyses from Amundi US as compared to that of Amundi US's fund management business, and considered the differences between the fees and expenses of the Portfolio and the fees and expenses of Amundi US's institutional accounts, as well as the different services provided by Amundi US to the Portfolio and to the institutional accounts. The Trustees further considered contract review materials, including additional materials received in response to the Trustees' request, in September 2022.

At a meeting held on September 20, 2022, based on their evaluation of the information provided by Amundi US and third parties, the Trustees of the Portfolio, including the Independent Trustees voting separately advised by independent counsel, unanimously approved the renewal of the investment management agreement for another year. In approving the renewal of the investment management agreement, the Trustees considered various factors that they determined were relevant, including the factors described below. The Trustees did not identify any single factor as the controlling factor in determining to approve the renewal of the agreement.

Nature, Extent and Quality of Services.

The Trustees considered the nature, extent and quality of the services that had been provided by Amundi US to the Portfolio, taking into account the investment objective and strategy of the Portfolio. The Trustees also reviewed Amundi US's investment approach for the Portfolio and its research process. The Trustees considered the resources of Amundi US and the personnel of Amundi US who provide investment management services to the Portfolio. They also reviewed the amount of non-Portfolio assets managed by the portfolio managers of the Portfolio. They considered the non-investment resources and personnel of Amundi US that are involved in Amundi US's services to the Portfolio, including Amundi US's compliance, risk management, and legal resources and personnel. The Trustees noted the substantial attention and high priority given by Amundi US's senior management to the Pioneer Fund complex, including with respect to the increasing regulation to which the Pioneer Funds are subject. The Trustees considered the effectiveness of Amundi US's business continuity plan in response to the ongoing COVID-19 pandemic.

The Trustees considered that Amundi US supervises and monitors the performance of the Portfolio's service providers and provides the Portfolio with personnel (including Portfolio officers) and other resources that are necessary for the Portfolio's business management and operations. The Trustees also considered that, as administrator, Amundi US is responsible for the administration of the Portfolio's business and other affairs. The Trustees considered that the Portfolio reimburses Amundi US its pro rata share of Amundi US's costs of providing administration services to the Pioneer Funds.

Based on these considerations, the Trustees concluded that the nature, extent and quality of services that had been provided by Amundi US to the Portfolio were satisfactory and consistent with the terms of the investment management agreement.

Performance of the Portfolio.

In considering the Portfolio's performance, the Trustees regularly review and discuss throughout the year data prepared by Amundi US and information comparing the Portfolio's performance with the performance of its peer group of funds, as classified by Morningstar, Inc. (Morningstar), and with the performance of the Portfolio's benchmark index. They also discuss the Portfolio's performance with Amundi US on a regular basis. The Trustees' regular reviews and discussions were factored into the Trustees' deliberations concerning the renewal of the investment management agreement.

Approval of Renewal of Investment Management Agreement (continued)

Management Fee and Expenses.

The Trustees considered information showing the fees and expenses of the Portfolio in comparison to the management fees of its peer group of funds as classified by Morningstar and also to the expense ratios of a peer group of funds selected on the basis of criteria determined by the Independent Trustees for this purpose using data provided by Strategic Insight Mutual Fund Research and Consulting, LLC (Strategic Insight), an independent third party. The peer group comparisons referred to below are organized in quintiles. Each quintile represents one-fifth of the peer group. In all peer group comparisons referred to below, first quintile is most favorable to the Portfolio's shareowners. The Trustees noted that they separately review and consider the impact of the Portfolio's transfer agency and Portfolio- and Amundi US-paid expenses for sub-transfer agency and intermediary arrangements, and that the results of the most recent such review were considered in the consideration of the Portfolio's expense ratio.

The Trustees considered that the Portfolio's management fee for the most recent fiscal year was in the fifth quintile relative to the management fees paid by other funds in its Morningstar category for the comparable period. The Trustees noted Amundi US's explanation of the reasons that the Portfolio's management fee was in the fifth quintile relative to the management fees paid by other funds in its Morningstar category. The Trustees considered that the expense ratio of the Portfolio's Class II shares for the most recent fiscal year was in the fifth quintile relative to its Strategic Insight peer group for the comparable period. The Trustees noted Amundi US's explanation of the reasons that the expense ratio of the Portfolio's Class II shares was in the fifth quintile relative to its Strategic Insight peer group.

The Trustees reviewed management fees charged by Amundi US to institutional and other clients, including publicly offered European funds sponsored by Amundi US's affiliates, unaffiliated U.S. registered investment companies (in a sub-advisory capacity), and unaffiliated foreign and domestic separate accounts. The Trustees also considered Amundi US's costs in providing services to the Portfolio and Amundi US's costs in providing services to the other clients and considered the differences in management fees and profit margins for fund and non-fund services. In evaluating the fees associated with Amundi US's client accounts, the Trustees took into account the respective demands, resources and complexity associated with the Portfolio and other client accounts. The Trustees noted that, in some instances, the fee rates for those clients were lower than the management fee for the Portfolio and considered that, under the investment management and administration agreements with the Portfolio, Amundi US performs additional services for the Portfolio that it does not provide to those other clients or services that are broader in scope, including oversight of the Portfolio is subject. The Trustees also considered the entrepreneurial risks associated with Amundi US's management of the Portfolio.

The Trustees concluded that the management fee payable by the Portfolio to Amundi US was reasonable in relation to the nature and quality of the services provided by Amundi US.

Profitability.

The Trustees considered information provided by Amundi US regarding the profitability of Amundi US with respect to the advisory services provided by Amundi US to the Portfolio, including the methodology used by Amundi US in allocating certain of its costs to the management of the Portfolio. The Trustees also considered Amundi US's profit margin in connection with the overall operation of the Portfolio. They further reviewed the financial results, including the profit margins, realized by Amundi US from non-fund businesses. The Trustees considered Amundi US's profit margins in comparison to the limited industry data available and noted that the profitability of any adviser was affected by numerous factors, including its organizational structure and method for allocating expenses. The Trustees concluded that Amundi US's profitability with respect to the management of the Portfolio was not unreasonable.

Economies of Scale.

The Trustees considered Amundi US's views relating to economies of scale in connection with the Pioneer Funds as fund assets grow and the extent to which any such economies of scale are shared with the Portfolio and Portfolio shareholders. The Trustees recognize that economies of scale are difficult to identify and quantify, and that, among other factors that may be relevant, are the following: fee levels, expense subsidization, investment by Amundi US in research and analytical capabilities and Amundi US's commitment and resource allocation to the Portfolio. The Trustees noted that profitability also may be an indicator of the availability of any economies of scale, although profitability may vary for other reasons including due to reductions in expenses. The Trustees concluded that economies of scale, if any, were being appropriately shared with the Portfolio.

Other Benefits.

The Trustees considered the other benefits that Amundi US enjoys from its relationship with the Portfolio. The Trustees considered the character and amount of fees paid or to be paid by the Portfolio, other than under the investment management agreement, for services provided by Amundi US and its affiliates. The Trustees further considered the revenues

and profitability of Amundi US's businesses other than the fund business. To the extent applicable, the Trustees also considered the benefits to the Portfolio and to Amundi US and its affiliates from the use of "soft" commission dollars generated by the Portfolio to pay for research and brokerage services.

The Trustees considered that Amundi US is the principal U.S. asset management business of Amundi, which is one of the largest asset managers globally. Amundi's worldwide asset management business manages over \$2.2 trillion in assets (including the Pioneer Funds). The Trustees considered that Amundi US's relationship with Amundi creates potential opportunities for Amundi US and Amundi that derive from Amundi US's relationships with the Portfolio, including Amundi's ability to market the services of Amundi US globally. The Trustees noted that Amundi US has access to additional research and portfolio management capabilities as a result of its relationship with Amundi and Amundi's enhanced global presence that may contribute to an increase in the resources available to Amundi US. The Trustees considered that Amundi US and the Portfolio receive reciprocal intangible benefits from the relationship, including mutual brand recognition and, for the Portfolio, direct and indirect access to the resources of a large global asset manager. The Trustees concluded that any such benefits received by Amundi US as a result of its relationship with the Portfolio were reasonable.

Conclusion.

After consideration of the factors described above as well as other factors, the Trustees, including the Independent Trustees, concluded that the investment management agreement for the Portfolio, including the fees payable thereunder, was fair and reasonable and voted to approve the proposed renewal of the investment management agreement.

Other Diverteralise Held by

Trustees, Officers and Service Providers

The Portfolio's Trustees and officers are listed below, together with their principal occupations and other directorships they have held during at least the past five years. Trustees who are interested persons of the Portfolios within the meaning of the 1940 Act are referred to as Interested Trustees. Trustees who are not interested persons of the Portfolio are referred to as Independent Trustees. Each of the Trustees serves as a Trustee of each of the 51 U.S. registered investment portfolios for which Amundi US serves as investment adviser (the "Pioneer Funds"). The address for all Trustees and all officers of the Portfolios is 60 State Street, Boston, Massachusetts 02109.

Name, Age and Position Held With the Trust	Term of Office and Length of Service	Principal Occupation(s) During At Least The Past Five Years	Other Directorships Held by Trustee During At Least The Past Five Years
Independent Trustees			
Thomas J. Perna (72) Chairman of the Board and Trustee	Trustee since 2006. Serves until a successor trustee is elected or earlier retirement or removal.	Private investor (2004 – 2008 and 2013 – present); Chairman (2008 – 2013) and Chief Executive Officer (2008 – 2012), Quadriserv, Inc. (technology products for securities lending industry); and Senior Executive Vice President, The Bank of New York (financial and securities services) (1986 – 2004)	Director, Broadridge Financial Solutions, Inc. (investor communications and securities processing provider for financial services industry) (2009 – present); Director, Quadriserv, Inc. (2005 – 2013); and Commissioner, New Jersey State Civil Service Commission (2011 – 2015)
John E. Baumgardner, Jr. (71)* Trustee	Trustee since 2019. Serves until a successor trustee is elected or earlier retirement or removal.	Of Counsel (2019 – present), Partner (1983-2018), Sullivan & Cromwell LLP (law firm).	Chairman, The Lakeville Journal Company, LLC, (privately-held community newspaper group) (2015-present)
Diane Durnin (65) Trustee	Trustee since 2019. Serves until a successor trustee is elected or earlier retirement or removal.	Managing Director - Head of Product Strategy and Development, BNY Mellon Investment Management (investment management firm) (2012-2018); Vice Chairman - The Dreyfus Corporation (2005 - 2018): Executive Vice President Head of Product, BNY Mellon Investment Management (2007-2012); Executive Director- Product Strategy, Mellon Asset Management (2005-2007); Executive Vice President Head of Products, Marketing and Client Service, Dreyfus Corporation (investment management firm) (2000-2005); Senior Vice President Strategic Product and Business Development, Dreyfus Corporation (1994-2000)	None
Benjamin M. Friedman (78) Trustee	Trustee since 2008. Serves until a successor trustee is elected or earlier retirement or removal.	William Joseph Maier Professor of Political Economy, Harvard University (1972 – present)	Trustee, Mellon Institutional Funds Investment Trust and Mellon Institutional Funds Master Portfolio (oversaw 17 portfolios in fund complex) (1989 - 2008)

Name, Age and Position Held With the Trust	Term of Office and Length of Service	Principal Occupation(s) During At Least The Past Five Years	Other Directorships Held by Trustee During At Least The Past Five Years
Independent Trustees (con	tinued)		
Craig C. MacKay (59) Trustee	Trustee since 2021. Serves until a successor trustee is elected or earlier retirement or removal.	Partner, England & Company, LLC (advisory firm) (2012 – present); Group Head – Leveraged Finance Distribution, Oppenheimer & Company (investment bank) (2006 – 2012); Group Head – Private Finance & High Yield Capital Markets Origination, SunTrust Robinson Humphrey (investment bank) (2003 – 2006); and Founder and Chief Executive Officer, HNY Associates, LLC (investment bank) (1996 – 2003)	Director, Equitable Holdings, Inc. (financial services holding company) (2022 – present); Board Member of Carver Bancorp, Inc. (holding company) and Carver Federal Savings Bank, NA (2017 – present); Advisory Council Member, MasterShares ETF (2016 – 2017); Advisory Council Member, The Deal (financial market information publisher) (2015 – 2016); Board Co-Chairman and Chief Executive Officer, Danis Transportation Company (privately-owned commercial carrier) (2000 – 2003); Board Member and Chief Financial Officer, Customer Access Resources (privately-owned teleservices company) (1998 – 2000); Board Member, Federation of Protestant Welfare Agencies (human services agency) (1993 – present); and Board Treasurer, Harlem Dowling Westside Center (foster care agency) (1999 – 2018)
Lorraine H. Monchak (66) Trustee	Trustee since 2017. (Advisory Trustee from 2014 - 2017). Serves until a successor trustee is elected or earlier retirement or removal.	Chief Investment Officer, 1199 SEIU Funds (healthcare workers union pension funds) (2001 – present); Vice President – International Investments Group, American International Group, Inc. (insurance company) (1993 – 2001); Vice President – Corporate Finance and Treasury Group, Citibank, N.A. (1980 – 1986 and 1990 – 1993); Vice President – Asset/Liability Management Group, Federal Farm Funding Corporation (government-sponsored issuer of debt securities) (1988 – 1990); Mortgage Strategies Group, Shearson Lehman Hutton, Inc. (investment bank) (1987 – 1988); Mortgage Strategies Group, Drexel Burnham Lambert, Ltd. (investment bank) (1986 – 1987)	None
Marguerite A. Piret (74) Trustee	Trustee since 1995. Serves until a successor trustee is elected or earlier retirement or removal.	Chief Financial Officer, American Ag Energy, Inc. (controlled environment and agriculture company) (2016 – present); President and Chief Executive Officer, Metric Financial Inc. (formerly known as Newbury Piret Company) (investment banking firm) (1981 – 2019)	Director of New America High Income Fund, Inc. (closed-end investment company) (2004 - present); and Member, Board of Governors, Investment Company Institute (2000 - 2006)

Trustees, Officers and Service Providers (continued)

Name, Age and Position Held With the Trust	Term of Office and Length of Service	Principal Occupation(s) During At Least The Past Five Years	Other Directorships Held by Trustee During At Least The Past Five Years
Independent Trustees (cor	ntinued)		
Fred J. Ricciardi (75) Trustee	Trustee since 2014. Serves until a successor trustee is elected or earlier retirement or removal.	Private investor (2020 – present); Consultant (investment company services) (2012 – 2020); Executive Vice President, BNY Mellon (financial and investment company services) (1969 – 2012); Director, BNY International Financing Corp. (financial services) (2002 – 2012); Director, Mellon Overseas Investment Corp. (financial services) (2009 – 2012); Director, Financial Models (technology) (2005-2007); Director, BNY Hamilton Funds, Ireland (offshore investment companies) (2004-2007); Chairman/Director, AIB/BNY Securities Services, Ltd., Ireland (financial services) (1999-2006); Chairman, BNY Alternative Investment Services, Inc. (financial services) (2005-2007)	None

^{*} Mr. Baumgardner is Of Counsel to Sullivan & Cromwell LLP, which acts as counsel to the Independent Trustees of each Pioneer Fund.

Interested Trustees

Lisa M. Jones (60)** Trustee, President and Chief Executive Officer Trustee since 2017. Serves until a successor trustee is elected or earlier retirement or removal

Director, CEO and President of Amundi US, Inc. (investment management firm) (since September 2014); Director, CEO and President of Amundi Asset Management US, Inc. (since September 2014); Director, CEO and President of Amundi Distributor US, Inc. (since September 2014); Director, CEO and President of Amundi Asset Management US, Inc. (since September 2014); Chair, Amundi US, Inc., Amundi Distributor US, Inc. and Amundi Asset Management US, Inc. (September 2014 - 2018); Managing Director, Morgan Stanley Investment Management (investment management firm) (2010 -2013); Director of Institutional Business, CEO of International, Eaton Vance Management (investment management firm) (2005 - 2010); Director of Amundi Holdings US, Inc. (since 2017)

Director of Clearwater Analytics (provider of web-based investment accounting software for reporting and reconciliation services) (September 2022 – present)

Kenneth J. Taubes (64)**

Trustee

Trustee since 2014. Serves until a successor trustee is elected or earlier retirement or removal

Director and Executive Vice President (since 2008) and Chief Investment Officer, U.S. (since 2010) of Amundi US, Inc. (investment management firm); Director and Executive Vice President and Chief Investment Officer, U.S. of Amundi US (since 2008); Executive Vice President and Chief Investment Officer, U.S. of Amundi Asset Management US, Inc. (since 2009); Portfolio Manager of Amundi US (since 1999); Director of Amundi Holdings US, Inc. (since 2017)

None

^{**} Ms. Jones and Mr. Taubes are Interested Trustees because they are officers or directors of the Portfolio's investment adviser and certain of its affiliates.

Name, Age and Position Held With the Trust	Term of Office and Length of Service	Principal Occupation(s) During At Least The Past Five Years	Other Directorships Held by Trustee During At Least The Past Five Years
Trust Officers			
Christopher J. Kelley (58) Secretary and Chief Legal Officer	Since 2003. Serves at the discretion of the Board	Vice President and Associate General Counsel of Amundi US since January 2008; Secretary and Chief Legal Officer of all of the Pioneer Funds since June 2010; Assistant Secretary of all of the Pioneer Funds from September 2003 to May 2010; Vice President and Senior Counsel of Amundi US from July 2002 to December 2007	None
Thomas Reyes (60) Assistant Secretary	Since 2010. Serves at the discretion of the Board	Assistant General Counsel of Amundi US since May 2013 and Assistant Secretary of all the Pioneer Funds since June 2010; Counsel of Amundi US from June 2007 to May 2013	None
Heather L. Melito-Dezan (46) Assistant Secretary	Since 2022. Serves at the discretion of the Board	Director - Trustee and Board Relationships of Amundi US since September 2019; Private practice from 2017 - 2019.	None
Anthony J. Koenig, Jr. (59) Treasurer and Chief Financial and Accounting Officer	Since 2021. Serves at the discretion of the Board	Managing Director, Chief Operations Officer and Fund Treasurer of Amundi US since May 2021; Treasurer of all of the Pioneer Funds since May 2021; Assistant Treasurer of all of the Pioneer Funds from January 2021 to May 2021; and Chief of Staff, US Investment Management of Amundi US from May 2008 to January 2021	None
Luis I. Presutti (57) Assistant Treasurer	Since 2000. Serves at the discretion of the Board	Director – Fund Treasury of Amundi US since 1999; and Assistant Treasurer of all of the Pioneer Funds since 1999	None
Gary Sullivan (64) Assistant Treasurer	Since 2002. Serves at the discretion of the Board	Senior Manager – Fund Treasury of Amundi US since 2012; and Assistant Treasurer of all of the Pioneer Funds since 2002	None
Antonio Furtado (40) Assistant Treasurer	Since 2020. Serves at the discretion of the Board	Fund Oversight Manager – Fund Treasury of Amundi US since 2020; Assistant Treasurer of all of the Pioneer Funds since 2020; and Senior Fund Treasury Analyst from 2012 - 2020	None
Michael Melnick (51) Assistant Treasurer	Since 2021. Serves at the discretion of the Board	Vice President - Deputy Fund Treasurer of Amundi US since May 2021; Assistant Treasurer of all of the Pioneer Funds since July 2021; Director of Regulatory Reporting of Amundi US from 2001 - 2021; and Director of Tax of Amundi US from 2000 - 2001	None
John Malone (52) Chief Compliance Officer	Since 2018. Serves at the discretion of the Board	Managing Director, Chief Compliance Officer of Amundi US Asset Management; Amundi Asset Management US, Inc.; and the Pioneer Funds since September 2018; Chief Compliance Officer of Amundi Distributor US, Inc. since January 2014.	None
Brandon Austin (50) Anti-Money Laundering Officer	Since 2022. Serves at the discretion of the Board	Director, Financial Security – Amundi Asset Management; Anti-Money Laundering Officer of all the Pioneer Funds since March 2022: Director of Financial Security of Amundi US since July 2021; Vice President, Head of BSA, AML and OFAC, Deputy Compliance Manager, Crédit Agricole Indosuez Wealth Management (investment management firm) (2013 – 2021)	None

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Proxy Voting Policies and Procedures of the Portfolio are available without charge, upon request, by calling our toll free number (1-800-225-6292). Information regarding how the Portfolio voted proxies relating to Portfolio securities during the most recent 12-month period ended June 30 is publicly available to shareowners at www.amundi.com/us. This information is also available on the Securities and Exchange Commission's web site at www.sec.gov.

