

**Supplement to the Prospectuses and Summary Prospectuses,  
each dated May 1, 2016**

**Portfolio****Prospectus**

|                                             |                      |
|---------------------------------------------|----------------------|
| Pioneer Bond VCT Portfolio                  | Class I and Class II |
| Pioneer Emerging Markets VCT Portfolio      | Class I and Class II |
| Pioneer Equity Income VCT Portfolio         | Class I and Class II |
| Pioneer Fund VCT Portfolio                  | Class I and Class II |
| Pioneer High Yield VCT Portfolio            | Class I and Class II |
| Pioneer Mid Cap Value VCT Portfolio         | Class I and Class II |
| Pioneer Real Estate Shares VCT Portfolio    | Class I and Class II |
| Pioneer Select Mid Cap Growth VCT Portfolio | Class I              |
| Pioneer Strategic Income VCT Portfolio      | Class I and Class II |

Pioneer Investment Management, Inc. (the “Adviser”), each portfolio’s investment adviser, is currently an indirect, wholly-owned subsidiary of UniCredit S.p.A. (“UniCredit”). On December 5, 2016, UniCredit announced that it has entered into exclusive negotiations for the possible sale of its Pioneer Investments business, which includes the Adviser, to Amundi. Amundi is headquartered in Paris, France, and, as of September 30, 2016, had more than \$1.1 trillion in assets under management worldwide.

Although the outcome of the negotiations cannot be predicted, a sale of the Adviser would cause each portfolio’s current investment advisory agreement with the Adviser to terminate. In that event, the portfolio’s Board of Trustees would be asked to approve a new investment advisory agreement for the portfolio. If approved by the Board, the portfolio’s new investment advisory agreement would be submitted to the shareholders of the portfolio for their approval.

May 1, 2016

## **Pioneer Disciplined Value VCT Portfolio**

### **Supplement to the Prospectus and Summary Prospectus, each dated May 1, 2016**

The Trustees of Pioneer Variable Contracts Trust have authorized the liquidation of Pioneer Disciplined Value VCT Portfolio. It is anticipated that the Portfolio will be liquidated on or about June 3, 2016. The Portfolio discontinued accepting requests to purchase shares of the Portfolio on April 28, 2016. Prior to the Portfolio's liquidation, all or a substantial portion of the Portfolio's assets may be invested in cash, cash equivalents and debt securities with remaining maturities of less than one year. When invested in such instruments in anticipation of the liquidation, the Portfolio may not be able to achieve its investment objective.

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Underwriter of Pioneer mutual funds  
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# PIONEER DISCIPLINED VALUE VCT PORTFOLIO

## CLASS II SHARES

### Summary Prospectus

May 1, 2016

Before you invest, you may want to review the portfolio's prospectus, which contains more information about the portfolio and its risks. You can find the portfolio's prospectus, statement of additional information and other information about the portfolio online at [http://us.pioneerinvestments.com/retire/vct\\_lit.jsp](http://us.pioneerinvestments.com/retire/vct_lit.jsp). You also can obtain this information at no cost by calling 1-800-225-6292 or by sending an email request to [ask.pioneer@pioneerinvestments.com](mailto:ask.pioneer@pioneerinvestments.com). The portfolio's current prospectus and statement of additional information, dated May 1, 2016, and the independent registered public accounting firm's report and financial statements in the portfolio's annual report to shareholders dated December 31, 2015, are incorporated by reference into this summary prospectus.

## Portfolio summary

### Investment objectives

Long-term capital growth.

### Fees and expenses

This table describes the fees and expenses that you may pay if you buy and hold shares of the portfolio. **Your costs would be higher if fees or sales charges imposed by a Variable Contract for which the portfolio is an investment option were included.** Please consult your insurance company's separate account prospectus or disclosure document for more information.

#### Annual portfolio operating expenses

(expenses that you pay each year as a percentage of the value of your investment)

|                                                                                                | Class II |
|------------------------------------------------------------------------------------------------|----------|
| Management Fees                                                                                | 0.70%    |
| Distribution and Service (12b-1) Fees                                                          | 0.25%    |
| Other Expenses                                                                                 | 0.07%    |
| Total Annual Portfolio Operating Expenses                                                      | 1.02%    |
| Fee Waiver and Expense Limitation <sup>1</sup>                                                 | -0.02%   |
| Total Annual Portfolio Operating Expenses After Fee Waiver and Expense Limitation <sup>1</sup> | 1.00%    |

- 1 The portfolio's investment adviser has contractually agreed to limit ordinary operating expenses (ordinary operating expenses means all portfolio expenses other than extraordinary expenses, such as litigation, taxes, brokerage commissions and acquired fund fees and expenses) to the extent required to reduce expenses to 1.00% of the average daily net assets attributable to Class II shares. This expense limitation is in effect through May 1, 2017. There can be no assurance that the adviser will extend the expense limitation beyond such time. Net expenses for a Class may exceed the applicable expense limitation to the extent that the portfolio incurs excluded expenses. While in effect, the arrangement may be terminated only by agreement of the adviser and the Board of Trustees.

## Summary Prospectus

### Example

This example is intended to help you compare the cost of investing in the portfolio with the cost of investing in other mutual funds. The example assumes that you invest \$10,000 in the portfolio for the time periods shown and then redeem all of your shares at the end of those periods. It also assumes that (a) your investment has a 5% return each year and (b) the portfolio's total annual operating expenses remain the same except for year one (which considers the effect of the expense limitation). This example does not reflect any fees or sales charges imposed by a Variable Contract for which the portfolio is an investment option. If they were included, your costs would be higher.

|          | <b>Number of years you own your shares<br/>(with or without redemption)</b> |          |          |           |
|----------|-----------------------------------------------------------------------------|----------|----------|-----------|
|          | <b>1</b>                                                                    | <b>3</b> | <b>5</b> | <b>10</b> |
| Class II | \$102                                                                       | \$323    | \$561    | \$1,246   |

### Portfolio turnover

The portfolio pays transaction costs, such as commissions, when it buys and sells securities (or "turns over" its portfolio). A higher portfolio turnover rate may indicate higher transaction costs. These costs, which are not reflected in annual portfolio operating expenses or in the example, affect the portfolio's performance. During the most recent fiscal year, the portfolio turnover rate was 120% of the average value of the portfolio.

### Principal investment strategies

The portfolio invests primarily in equity securities of U.S. issuers. For purposes of the portfolio's investment policies, equity securities include common stocks and other equity instruments, such as exchange-traded funds (ETFs) that invest primarily in equity securities, depositary receipts, warrants, rights, equity interests in real estate investment trusts (REITs) and preferred stocks.

The portfolio may invest in issuers of any market capitalization. The portfolio may invest in securities in any industry or market sector. The portfolio may invest in fewer than 40 securities. The portfolio may invest in initial public offerings of equity securities. In addition, the portfolio may invest up to 10% of its total assets in securities of non-U.S. issuers. The portfolio will not invest more than 5% of its total assets in the securities of emerging market issuers. The portfolio may invest in debt securities. Generally, the portfolio may acquire investment grade debt securities, but the portfolio may invest up to 5% of its net assets in below investment grade debt securities (known as "junk bonds"), including below investment grade convertible debt securities. The portfolio also may hold cash or other short-term investments.

The portfolio may, but is not required to, use derivatives, such as stock index futures and options. The portfolio may use derivatives for a variety of purposes, including: in an attempt to hedge against adverse changes in the market price of securities, interest rates or currency exchange rates; as a substitute for purchasing or selling securities; to attempt to increase the portfolio's return as a non-hedging strategy that may be considered speculative; to manage portfolio characteristics; and as a cash flow management technique. The portfolio may choose not to make use of derivatives for a variety of reasons, and any use may be limited by applicable law and regulations.

The portfolio's investment adviser uses a valuation-conscious approach to select the portfolio's investments based upon the recommendations of the adviser's research teams. The research teams use a two-step process in selecting securities that combines fundamental and quantitative research. First, the teams assess whether a company's fundamentals—financial condition, management, and position in its industry—indicate strong prospects for growth and attractive valuations. Second, the teams employ a quantitative, value-oriented approach to construct the portfolio's portfolio, emphasizing those securities believed to be selling at reasonable prices versus the underlying values. A security may be sold if its ranking by the research team is reduced or the security price reaches a reasonable valuation.

## **Principal risks of investing in the portfolio**

You could lose money on your investment in the portfolio. As with any mutual fund, there is no guarantee that the portfolio will achieve its objectives.

**Market risk.** The values 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, inflation, changes in interest or currency rates, lack of liquidity in the bond markets or adverse investor sentiment. In the past several years, financial markets, such as those in the United States, Europe, Asia and elsewhere, have experienced increased volatility, depressed valuations, decreased liquidity and heightened uncertainty. Governmental and non-governmental issuers have defaulted on, or been forced to restructure, their debts. These conditions may continue, recur, worsen or spread. The U.S. government and the Federal Reserve, as well as certain foreign governments and their central banks, have taken steps to support financial markets, including by keeping interest rates at historically low levels. This and other government intervention may not work as intended, particularly if the efforts are perceived by investors as being unlikely to achieve the desired results. The Federal Reserve recently has reduced its market support activities. Further reduction or withdrawal of Federal Reserve or other U.S. or non-U.S. governmental or central bank support, including interest rate increases, could negatively affect financial markets generally, increase market volatility and reduce the value and liquidity of securities in which the portfolio invests. Policy and legislative changes in the U.S. and in other countries are affecting many aspects of financial regulation, and may in some instances contribute to decreased liquidity and increased volatility in the financial markets. The impact of these changes on the markets, and the practical implications for market participants, may not be fully known for some time. Economies and financial markets throughout the world are becoming increasingly interconnected. As a result, whether or not the portfolio invests in securities of issuers located in or with significant exposure to countries experiencing economic and financial difficulties, the value and liquidity of the portfolio's investments may be negatively affected. The portfolio may experience a substantial or complete loss on any individual security or derivative position.

**Value style risk.** The prices of securities the adviser believes are undervalued may not appreciate as expected or may go down. Value stocks may fall out of favor with investors and underperform the overall equity market.

**Portfolio selection risk.** The adviser's judgment about a particular security or issuer, or about the economy or a particular sector, region or market segment, or about an investment strategy, may prove to be incorrect.

**Issuer focus risk.** The portfolio may invest in fewer than 40 securities and as a result, the portfolio's performance may be more volatile than the performance of portfolios holding more securities.

**Small and mid-size companies risk.** Compared to large companies, small- and mid-size companies, and the market for their equity securities, may be more sensitive to changes in earnings results and investor expectations, have more limited product lines and capital resources, experience sharper swings in market values, have limited liquidity, be harder to value or to sell at the times and prices the adviser thinks appropriate, and offer greater potential for gain and loss.

**Risks of investments in real estate related securities.** Investments in real estate securities are affected by economic conditions, interest rates, governmental actions and other factors. In addition, investing in REITs involves unique risks. They are significantly affected by the market for real estate and are dependent upon management skills and cash flow. REITs may have lower trading volumes and may be subject to more abrupt or erratic price movements than the overall securities markets. Mortgage REITs are particularly subject to interest rate and credit risks. In addition to its own expenses, the portfolio will indirectly bear its proportionate share of any management and other expenses paid by REITs in which it invests. Many real estate companies, including REITs, utilize leverage.

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**Risks of warrants and rights.** If the price of the underlying stock does not rise above the exercise price before the warrant expires, the warrant generally expires without any value and the portfolio loses any amount it paid for the warrant. The failure to exercise subscription rights to purchase common shares would result in the dilution of the portfolio's interest in the issuing company.

**Preferred stocks risk.** Preferred stocks may pay fixed or adjustable rates of return. Preferred stocks are subject to issuer-specific and market risks applicable generally to equity securities. In addition, a company's preferred stocks generally pay dividends only after the company makes required payments to holders of its bonds and other debt. Thus, the value of preferred stocks will usually react more strongly than bonds and other debt to actual or perceived changes in the company's financial condition or prospects. The market value of preferred stocks generally decreases when interest rates rise. Preferred stocks of smaller companies may be more vulnerable to adverse developments than preferred stocks of larger companies.

**Risks of initial public offerings.** Companies involved in initial public offerings (IPOs) generally have limited operating histories, and prospects for future profitability are uncertain. The market for IPO issuers has been volatile, and share prices of newly public companies have fluctuated significantly over short periods of time. The purchase of IPO shares may involve high transaction costs.

**Risks of investment in other funds.** Investing in other investment companies, including exchange-traded funds (ETFs), subjects the portfolio to the risks of investing in the underlying securities or assets held by those funds. When investing in another fund, the portfolio will bear a pro rata portion of the underlying fund's expenses, in addition to its own expenses.

**Debt securities risk.** Factors that could contribute to a decline in the market value of debt securities in the portfolio include rising interest rates, if the issuer or other obligor of a security held by the portfolio fails to pay principal and/or interest, otherwise defaults or has its credit rating downgraded or is perceived to be less creditworthy or the credit quality or value of any underlying assets declines. Junk bonds have a higher risk of default or are already in default and are considered speculative.

**Risks of non-U.S. investments.** Investing in non-U.S. issuers, or in U.S. issuers that have significant exposure to foreign markets, or issuers with significant exposure to foreign markets may involve unique risks compared to investing in securities of U.S. issuers. These risks are more pronounced for issuers in emerging markets or to the extent that the portfolio invests significantly in one region or country. These risks may include different financial reporting practices and regulatory standards, less liquid trading markets, extreme price volatility, currency risks, changes in economic, political, regulatory and social conditions, sustained economic downturns, financial instability, tax burdens, 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. A number of countries in the European Union (EU) have experienced, and may continue to experience, severe economic and financial difficulties.

**Market segment risk.** To the extent the portfolio emphasizes, from time to time, investments in a market segment, the portfolio will be subject to a greater degree to the risks particular to that segment, and may experience greater market fluctuation than a portfolio without the same focus.

**Derivatives risk.** Using stock index futures and options and other derivatives can increase portfolio losses and reduce opportunities for gains when market prices, interest rates or the derivative instruments themselves behave in a way not anticipated by the portfolio. Using derivatives may increase the volatility of the portfolio's net asset value and may not provide the result intended. Derivatives may have a leveraging effect on the portfolio. Some derivatives have the potential for unlimited loss, regardless of the size of the portfolio's initial investment. Changes in a derivative's value may not correlate well with the referenced asset or metric. The

portfolio also may have to sell assets at inopportune times to satisfy its obligations. Derivatives may be difficult to sell, unwind or value, and the counterparty may default on its obligations to the portfolio. The U.S. government is in the process of adopting and implementing regulations governing derivatives markets, including mandatory clearing of certain derivatives, margin and reporting requirements. The ultimate impact of the regulations remains unclear. Additional regulation of derivatives may make them more costly, may limit their availability, may disrupt markets or may otherwise adversely affect their value or performance.

**Leveraging risk.** The value of your investment may be more volatile and other risks tend to be compounded if the portfolio borrows or uses derivatives or other investments, such as ETFs, that have embedded leverage. Leverage generally magnifies the effect of any increase or decrease in the value of the portfolio's underlying assets and creates a risk of loss of value on a larger pool of assets than the portfolio would otherwise have, potentially resulting in the loss of all assets. Engaging in such transactions may cause the portfolio to liquidate positions when it may not be advantageous to do so to satisfy its obligations or meet segregation requirements.

**Portfolio turnover risk.** If the portfolio does a lot of trading, it may incur additional operating expenses, which would reduce performance. A higher level of portfolio turnover may also cause taxable shareholders to incur a higher level of taxable income or capital gains.

**Valuation risk.** The sales price the portfolio could receive for any particular portfolio investment may differ from the portfolio's last valuation of the investment, particularly for illiquid securities and securities that trade in thin or volatile markets or that are valued using a fair value methodology. Investors who purchase or redeem portfolio shares on days when the portfolio is holding fair-valued securities may receive fewer or more shares or lower or higher redemption proceeds than they would have received if the portfolio had not fair-valued the security or had used a different valuation methodology.

**Liquidity risk.** Some securities and derivatives held by the portfolio may be impossible or difficult to purchase, sell or unwind, particularly during times of market turmoil. Illiquid securities and derivatives also may be difficult to value. If the portfolio is forced to sell an illiquid asset or unwind a derivatives position to meet redemption requests or other cash needs, the portfolio may be forced to sell at a loss.

**Expense risk.** Your actual costs of investing in the portfolio may be higher than the expenses shown in "Annual portfolio operating expenses" for a variety of reasons. For example, expense ratios may be higher than those shown if overall net assets decrease. Net assets are more likely to decrease and portfolio expense ratios are more likely to increase when markets are volatile.

Please note that there are many other factors that could adversely affect your investment and that could prevent the portfolio from achieving its goals.

An investment in the portfolio is not a bank deposit and is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency.

### **The portfolio's past performance**

The bar chart and table indicate the risks and volatility of an investment in the portfolio by showing how the portfolio has performed in the past. The bar chart shows changes in the performance of the portfolio's Class II shares from calendar year to calendar year. The table shows the average annual total returns for Class II shares of the portfolio over time and compares these returns to the returns of the Russell 1000 Value Index, a broad-based measure of market performance that has characteristics relevant to the portfolio's investment strategies.

Cullen Capital Management LLC served as the portfolio subadviser through July 31, 2012. The portfolio's investment objective and principal investment strategies changed effective May 1, 2013. Certain performance information shown below reflects the performance of the portfolio prior to these changes.

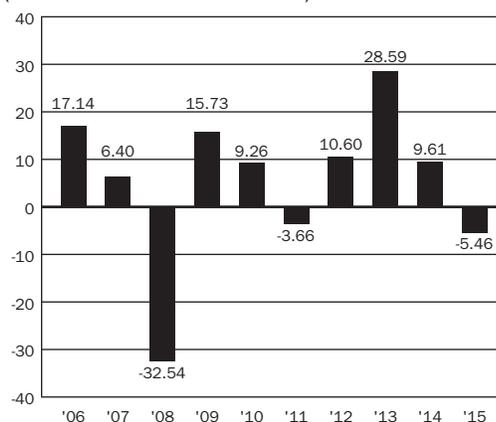
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The bar chart and table do not reflect any fees or expenses payable with respect to a Variable Contract. Such fees and expenses will reduce your return.

The portfolio's past performance does not necessarily indicate how it will perform in the future.

### Annual return Class II Shares (%)

(Year ended December 31)



For the period covered by the bar chart:

*The highest calendar quarterly return was 15.02% (04/01/2009 to 06/30/2009).*

*The lowest calendar quarterly return was -18.13% (10/01/2008 to 12/31/2008).*

### Average annual total return (%)

(for periods ended December 31, 2015)

|                                                                              | 1 Year | 5 Years | 10 Years | Since Inception (03/18/05) |
|------------------------------------------------------------------------------|--------|---------|----------|----------------------------|
| Class II                                                                     | -5.46  | 7.26    | 4.20     | 4.80                       |
| Russell 1000 Value Index (reflects no deduction for fees, expenses or taxes) | -3.83  | 11.27   | 6.16     | 6.26                       |

## Management

### Investment adviser

Pioneer Investment Management, Inc.

### Portfolio management

Craig Sterling, Senior Vice President and Head of Equity Research, U.S. at Pioneer (portfolio manager of the portfolio since May 2015); John Peckham, Senior Vice President at Pioneer (portfolio manager of the portfolio since 2013); and Ashesh Savla, Vice President and Team Leader of U.S. Equity Quantitative Research at Pioneer (portfolio manager of the portfolio since 2013).

## Tax information

Shares of the portfolio are held by life insurance company separate accounts that fund the benefits under variable annuity and variable life insurance contracts (Variable Contracts) issued by their companies and by certain qualified pension and retirement plans (Qualified Plans). Owners of Variable Contracts should read the prospectus of their insurance company's Variable Contract for a discussion of the tax status of a Variable Contract, including the tax consequences of withdrawals or other payments. Participants in a Qualified Plan should consult their tax advisers regarding the tax consequences of participating in and receiving distributions or other payments relating to such plans.

### **Payments to broker-dealers and other financial intermediaries**

If you purchase the portfolio through a broker-dealer or other financial intermediary (such as a bank), the portfolio and its related companies may pay the intermediary for the sale of portfolio shares and related services. These payments may create a conflict of interest by influencing the broker-dealer or other intermediary and your salesperson or investment professional to recommend the portfolio over another investment. Ask your salesperson or investment professional or visit your financial intermediary's website for more information.

In addition, shares of the portfolio are offered to insurance companies to fund the benefits under Variable Contracts issued by their companies and are additionally offered to Qualified Plans. The portfolio and its related companies may pay the sponsoring insurance companies and their affiliated broker-dealers and service providers for the sale of portfolio shares and related services. These payments may create a conflict of interest by influencing insurance companies to recommend the portfolio over another investment. Your insurance company's separate account prospectus or disclosure document may contain additional information about these payments.

