

Putnam PanAgora Risk Parity Fund

Summary prospectus

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FUND SYMBOLS	CLASS A	CLASS B	CLASS C	CLASS M	CLASS R	CLASS R6	CLASS T	CLASS Y
	PPRPX	PPRLX	PPRNX	PPRVX	PPROX	PPRWX	Pending	PPRYX

Putnam PanAgora Risk Parity Fund

Before you invest, you may wish to review the fund's prospectus, which contains more information about the fund and its risks. You may obtain the prospectus and other information about the fund, including the statement of additional information (SAI) and most recent reports to shareholders, at no cost by visiting putnam.com/funddocuments, calling 1-800-225-1581, or e-mailing Putnam at funddocuments@putnam.com.

The fund's prospectus and SAI, both dated 8/16/17, are incorporated by reference into this summary prospectus.

Goal

Putnam PanAgora Risk Parity Fund seeks total return. Total return is composed of capital appreciation and income.

Fees and expenses

The following table describes the fees and expenses you may pay if you buy and hold shares of the fund. You may qualify for sales charge discounts if you and your family invest, or agree to invest in the future, at least \$50,000 in Putnam funds. More information about these and other discounts is available from your financial advisor and in *How do I buy fund shares?* beginning on page 24 of the fund's prospectus, in Appendix A to the fund's prospectus, and in *How to buy shares* beginning on page II-1 of the fund's statement of additional information (SAI).

Shareholder fees *(fees paid directly from your investment)*

Share class	Maximum sales charge (load) imposed on purchases (as a percentage of offering price)	Maximum deferred sales charge (load) (as a percentage of original purchase price or redemption proceeds, whichever is lower)
Class A	5.75%	1.00%*
Class B ¹	NONE	5.00%**
Class C	NONE	1.00%***
Class M	3.50%	NONE
Class R	NONE	NONE
Class R6	NONE	NONE
Class T ²	2.50%	NONE
Class Y	NONE	NONE

Annual fund operating expenses

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

Share class	Management fees†	Distribution and service (12b-1) fees	Other expenses*	Total annual fund operating expenses	Expense reimbursement#	Total annual fund operating expenses after expense reimbursement
Class A	0.75%	0.25%	0.65%	1.65%	(0.30)%	1.35%
Class B ¹	0.75%	1.00%	0.65%	2.40%	(0.30)%	2.10%
Class C	0.75%	1.00%	0.65%	2.40%	(0.30)%	2.10%
Class M	0.75%	0.75%	0.65%	2.15%	(0.30)%	1.85%
Class R	0.75%	0.50%	0.65%	1.90%	(0.30)%	1.60%
Class R6	0.75%	N/A	0.55%	1.30%	(0.30)%	1.00%
Class T ²	0.75%	0.25%	0.65%	1.65%	(0.30)%	1.35%
Class Y	0.75%	N/A	0.65%	1.40%	(0.30)%	1.10%

¹ Purchases of class B shares are closed to new and existing investors except by exchange from class B shares of another Putnam fund or through dividend and/or capital gains reinvestment.

² Class T shares are not currently available for purchase.

* Applies only to certain redemptions of shares bought with no initial sales charge.

** A deferred sales charge on class B shares may apply to certain redemptions of shares purchased by exchange from another Putnam fund.

*** This charge is eliminated after one year.

† Includes management fee payable to Putnam Management by the fund's wholly-owned subsidiary. The management fee paid by the fund to Putnam Management is reduced by an amount equal to the management fee Putnam Management receives from the subsidiary under the management contract between Putnam Management and the subsidiary.

= Other expenses are based on estimated amounts for the current fiscal year.

Reflects Putnam Investment Management, LLC's contractual obligation to limit certain fund expenses through 12/30/2018. This obligation may be modified or discontinued only with approval of the Board of Trustees.

Example

The following hypothetical example is intended to help you compare the cost of investing in the fund with the cost of investing in other funds. It assumes that you invest \$10,000 in the fund for the time periods indicated and then, except as indicated, redeem all your shares at the end of those periods. It assumes a 5% return on your investment each year and that the fund's operating expenses remain the same. Your actual costs may be higher or lower.

Share class	1 year	3 years
Class A	\$705	\$996
Class B	\$713	\$977
Class B (no redemption)	\$213	\$677
Class C	\$313	\$677
Class C (no redemption)	\$213	\$677
Class M	\$531	\$929
Class R	\$163	\$524
Class R6	\$102	\$338
Class T	\$384	\$686
Class Y	\$112	\$369

Portfolio turnover

The fund pays transaction-related costs, such as commissions, when it buys and sells securities (or “turns over” its portfolio). A higher turnover rate may indicate higher transaction costs and may result in higher taxes when the fund’s shares are held in a taxable account. These costs, which are not reflected in annual fund operating expenses or the above example, affect fund performance. The fund’s turnover rate will be available after the fund completes its first fiscal year.

Investments, risks, and performance

Investments

The fund pursues an investment strategy designed to generate returns from investing in a combination of asset classes with diversified risk characteristics. The fund strategically allocates its investments among equities, fixed-income instruments and commodities in an effort to participate in periods of economic growth, preserve capital during periods of economic contraction, and preserve real rates of return during periods of heightened inflation.

In allocating the fund’s assets among the different asset classes, PanAgora Asset Management, Inc. (“PanAgora”), the subadviser to the fund, employs a proprietary “risk parity” approach, which relies on quantitative models and information and data inputs to those models to seek to diversify the fund’s portfolio risks across and within asset classes. When allocating investments across asset classes, the fund generally allocates a greater portion of its assets to asset classes PanAgora views as having lower risk, such as developed market bonds, than to asset classes PanAgora views as having higher risk, such as global equities. In its “neutral” position, the fund’s assets are generally strategically allocated among the different asset classes so that the anticipated contribution of each asset class to the overall risk of the fund will be approximately as follows: 40% from equity risk; 40% from fixed income risk; and 20% from inflation risk. However, PanAgora may seek different risk contributions from time to time, including in response to market conditions. When allocating investments within each asset class, PanAgora’s risk parity approach seeks to diversify the fund’s risk exposures across a variety of factors, including industry sectors, geographies, companies and commodity types.

The fund will gain exposure to different areas of risk either through direct investment or through derivative instruments, primarily including forwards, futures, and swaps, but which may also include, but are not limited to, options. The fund may invest without limit in equity securities, including, but not limited to, global developed markets large-cap equities, emerging markets equities, and U.S. small and mid-cap equities. The fund may additionally invest in fixed-income securities of any credit quality, duration or maturity (including, but not limited to, U.S and non-U.S. sovereign bonds, global inflation-linked government bonds (including Treasury Inflation Protected Securities), and investment-grade corporate bonds), commodities (including through, but not limited to, commodity-linked notes and commodity-related derivative instruments (primarily commodity futures and swaps on commodity futures)), exchange-traded funds (“ETFs”), exchange-traded notes, and emerging markets and other currencies (including through cash bonds and currency forwards). These asset classes offer different return potential and exposure to different investment risks.

While the fund normally does not engage in borrowing, the fund typically uses derivatives to a significant extent and may take “short” derivatives positions.

A significant portion of the assets of the fund will be invested in short-term instruments, including cash and cash equivalents generally with one year or less term to maturity.

These investments serve as collateral for the derivative positions the fund takes and also may earn income for the fund.

The fund is “non-diversified,” which means that it may invest a greater percentage of its assets in fewer issuers than a “diversified” fund.

The fund may invest directly or indirectly through its wholly-owned and controlled subsidiary, which, like the fund, is sub-advised by PanAgora. The fund may invest no more than 25% of its assets in the subsidiary. Generally, the subsidiary will invest primarily in commodity futures and swaps on commodity futures but it may also invest in other commodity-related instruments (such as financial futures, option and swap contracts) or other asset classes (including through derivatives). Unlike the fund, the subsidiary may invest without limitation in commodity-related instruments. Unless indicated otherwise, references to the fund’s investments, investment exposures or risks include its indirect investments, investment exposures and risks through the subsidiary.

Risks

It is important to understand that you can lose money by investing in the fund.

There can be no assurance that employing a “risk parity” approach will achieve any particular level of return or will, in fact, reduce volatility or potential loss. The fund’s efforts to strategically allocate its investments among and within asset classes may be unsuccessful and may hurt performance, and efforts to diversify risk through the use of leverage may not be successful. If the quantitative models or data that are used in managing the fund prove to be incorrect or incomplete, investment decisions made in reliance on the models or data may not produce the desired results and the fund may realize losses. Additionally, market movements are likely to change the risk levels and risk allocations of the fund.

The value of the securities and other assets in which the fund invests (whether directly or indirectly through derivatives) may fall or fail to rise over extended periods of time for a variety of reasons, including general financial market conditions, changing market perceptions (including perceptions about the risk of default or expectations about monetary policy or interest rates), changes in government intervention in the financial markets, and factors related to a specific issuer or industry. These and other factors may lead to increased volatility and reduced liquidity in the fund’s portfolio holdings. These risks are generally greater for small and midsize companies.

The fixed income securities in which the fund invests (whether directly or indirectly through derivatives) are subject to interest rate risk, which means the value of those investments is likely to fall if interest rates rise. The fund’s investments in fixed income securities also are subject to credit risk, which is the risk that the issuer of the fixed income security may default on payment of interest or principal. Interest rate risk is generally greater for the fund’s investments in longer-term fixed income securities, and credit risk is generally greater for below-investment-grade bonds, which may be considered speculative.

The value of the inflation-protected securities to which the fund is exposed generally declines during periods of rising real interest rates (i.e., nominal interest rate minus inflation) and increases during periods of declining real interest rates. When real interest rates are rising faster than nominal interest rates, inflation-indexed bonds, including Treasury Inflation Protected Securities, may experience greater losses than other fixed income securities with similar durations.

Exposure to the commodities markets may subject the fund to greater volatility than investments in traditional securities. The value of commodity-linked instruments may be affected by changes in overall market movements, commodity index volatility, changes in

interest rates, or factors affecting a particular industry or commodity. Future regulatory developments may impact the fund's ability to invest in commodity-linked instruments.

The fund's investments in forwards, futures, swaps, and other derivatives are subject to losses caused by unanticipated market movements, and there may be imperfect correlation between price movements of a derivative and price movements of the security or other asset for which the derivative is intended as a substitute. Derivatives may be difficult to value and may increase the fund's transaction costs. Derivatives also involve the risk of the potential inability to terminate or sell the derivatives positions. Derivatives can significantly increase the fund's exposure to credit and counterparty risks. Derivatives, particularly over-the-counter instruments, involve the risk of the potential failure of the other party to the derivative to meet its obligations. Derivatives are subject to the risk that the fund may be delayed or prevented from recovering margin or other amounts deposited with a clearinghouse, futures commission merchant or other counterparty. If the fund has insufficient cash, it may have to sell its investments to meet daily variation margin requirements at a time when it may be disadvantageous to do so.

The fund's use of derivatives also increases its risks by increasing investment exposure (which may be considered leverage). Leveraging may cause the fund's performance to be more volatile, may expose the fund to losses in excess of the amounts invested, and may require the fund to liquidate portfolio securities when it may not be advantageous to do so, to satisfy its obligations or to meet segregation requirements.

The fund's use of "short" derivatives positions may have the effect of economic leverage, which magnifies investment exposure, and may result in losses if the underlying assets appreciate in value.

The value of international investments traded in foreign currencies may be adversely impacted by fluctuations in exchange rates. International investments, particularly investments in emerging markets, may carry risks associated with potentially less stable economies or governments (such as the risk of seizure by a foreign government, the imposition of currency or other restrictions, or high levels of inflation or deflation), and may be or become illiquid.

A fund that invests in (or provides exposure to) fewer issuers or that makes large investments in (or provides large amounts of exposure to) a small number of issuers is more vulnerable than a more broadly diversified fund to fluctuations in the values of the securities to which it has exposure.

An investment in an investment company or ETF involves substantially the same risks as investing directly in the underlying securities. An investment company or ETF may not achieve its investment objective or execute its investment strategy effectively, which may adversely affect the fund's performance. The fund must pay its pro rata portion of an investment company's or ETF's fees and expenses. Shares of a closed-end investment company or ETF may trade at a premium or discount to the net asset value of its portfolio securities.

By investing in the subsidiary, the fund is indirectly exposed to the risks associated with the subsidiary's investments. The subsidiary is not registered under the Investment Company Act of 1940, as amended (the "1940 Act"), and is not subject to all the investor protections of the 1940 Act. Changes in the laws of the United States and/or the Cayman Islands could result in the inability of the fund and/or the subsidiary to operate as described in this prospectus and could adversely affect the fund.

The fund may not achieve its goal, and it is not intended to be a complete investment program. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency.

Performance

Performance information will be available after the fund completes a full calendar year of operation.

Your fund's management

Investment advisor

Putnam Investment Management, LLC

Sub-advisor

PanAgora Asset Management, Inc.

Portfolio managers

Edward Qian

Portfolio Manager, portfolio manager of the fund since 2017

Bryan Belton

Portfolio Manager, portfolio manager of the fund since 2017

Purchase and sale of fund shares

You can open an account, purchase and/or sell fund shares, or exchange them for shares of another Putnam fund by contacting your financial advisor or by calling Putnam Investor Services at 1-800-225-1581. Purchases of class B shares are closed to new and existing investors except by exchange from class B shares of another Putnam fund or through dividend and/or capital gains reinvestment. Class T shares are not currently available for purchase.

When opening an account, you must complete and mail a Putnam account application, along with a check made payable to the fund, to: Putnam Investor Services, P.O. Box 8383, Boston, MA 02266-8383. The minimum initial investment of \$500 is currently waived, although Putnam reserves the right to reject initial investments under \$500 at its discretion. There is no minimum for subsequent investments.

You can sell your shares back to the fund or exchange them for shares of another Putnam fund any day the New York Stock Exchange (NYSE) is open. Shares may be sold or exchanged by mail, by phone, or online at putnam.com. Some restrictions may apply.

Tax information

The fund's distributions will be taxed as ordinary income or capital gains unless you hold the shares through a tax-advantaged arrangement, in which case you will generally be taxed only upon withdrawal of monies from the arrangement.

Financial intermediary compensation

If you purchase the fund through a broker/dealer or other financial intermediary (such as a bank or financial advisor), the fund and its related companies may pay that intermediary for the sale of fund shares and related services. Please bear in mind that these payments may create a conflict of interest by influencing the broker/dealer or other intermediary to recommend the fund over another investment. Ask your advisor or visit your advisor's website for more information.

Additional information, including current performance, is available at putnam.com/funddocuments, by calling 1-800-225-1581, or by e-mailing Putnam at funddocuments@putnam.com.

Class T shares of the fund
are not currently available
for purchase.

