PIMCO Research Affiliates Equity (RAE) Funds

Seek more from your value allocation with a systematic strategy that is designed to exploit what is potentially the largest and most persistent active investment opportunity: mean reversion.

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Value investing: Be a contrarian

Being a contrarian in any arena has never been easy. Impatience, discomfort, delayed gratification, and a general sense of FOMO¹ can all come with the territory and persist for long periods of time. On a more positive note, the contrarian that sets aside emotion and embraces discipline, consistency, and a long-term horizon can ultimately be rewarded for their patience. Being a contrarian has never been easy, but it has always been at the heart of successful value equity investing.

In search of a better approach to value investing

Now more than ever, after the value style’s longest and deepest drawdown on record², many investors are evaluating their strategic allocations to ensure that they benefit from the potential of value’s diversifying returns. Selecting the right manager to fulfill this role in the portfolio requires an analysis of a strategy’s investment philosophy, process and team. Additional considerations include track records, consistency, and fees.

Based on Research Affiliates’ conviction that the largest and most persistent equity investment opportunity is long-horizon mean reversion, PIMCO’s RAE strategy is a systematic active approach to value investing that is the result of over 15 years of quantitative investment research and time tested over a variety of market cycles. This brochure will walk through the RAE investment process, highlight key differentiators and explain why PIMCO believes RAE is a better approach to value investing.

Research Affiliates believes that while equity markets tend to move towards efficient pricing over the long term, near-term sentiment can drive the price of stocks above or below their fair value. A rules-based approach that systematically buys low and sells high, an inherently contrarian strategy, takes advantage of this short-term mispricing and potentially converts the market’s tendency towards long-horizon mean reversion to excess returns.

**PHILOSOPHY OF RAE**

"The largest and most persistent active investment opportunity is long-horizon mean reversion."

– Research Affiliates

The question is, what measures can be used to select the most attractive companies in a given universe of stocks? And importantly: what approximation of a company’s size should be used to anchor such contra-trading over time? These questions get to the heart of the RAE investment process: the signals used for stock selection and the methodology that drives the weight of each stock in an RAE portfolio.
STEP 1: SELECTING STOCKS BASED ON THEIR RAE SCORE

Portfolio construction for an RAE strategy begins by assigning an “RAE Score” to each eligible company in the proprietary universe maintained by Research Affiliates. Eligible companies are those that meet certain size, liquidity, and regional criteria based on the investment objective (e.g., U.S. large cap, U.S. small cap, international, emerging markets, etc.). Companies with the highest RAE Score are selected for the portfolio.

The RAE Score is a composite of the attractiveness of a stock based on value, quality and momentum signals designed by Research Affiliates. These signals and their implementation benefit from the ongoing research of the investment team and evolve based on the team’s latest insights. Each component signal in the RAE Score combines several measures into a diverse composite that seeks to reduce noise and capture excess returns over time. Research Affiliates believes that quantitative strategies are prone to data mining and an overreliance on a single measure of a signal can introduce noise.

Value signal

Research Affiliates designed the RAE value signal to exploit short-term mispricing of stocks. Valuation determines how “cheap” or “expensive” a company is by comparing a company’s fundamental size (specifically, the size of its sales, cash flow, dividends and book value – equally considered) to its market capitalization (or the stock’s current price). Research Affiliates believes that the ratio of a company’s fundamental size to its market capitalization has information – companies with a high ratio are relatively cheap, companies with a low ratio are relatively expensive. Valuation is quantitatively adjusted to avoid extreme sector biases. Such a holistic measure goes beyond value’s classic definition of high book-to-price and captures companies which derive more of their economic size from cash flows, dividends, intangibles, and other metrics that can drive a company’s valuation.

Research Affiliates also incorporates style exposure into RAE’s value signal to ensure the model avoids owning expensive “value stocks” and includes cheap “growth stocks.” Limiting value investing to only those stocks that co-move with other value stocks can result in strategies that are highly exposed to the value factor regardless of relative valuation. In addition, cheap growth-like stocks (or those that have low correlation to the value factor) offer upside potential when prices mean revert.

This composite value signal comprised of multiple ratios adjusted for sector and style exposure represents the largest contributor to the RAE Score. In tandem with the contrarian rebalancing described below, this signal contributes to RAE’s dynamic value orientation, increasing the discount of the portfolio when value stocks are cheapest and decreasing the discount when value stocks trade at narrower discounts to their growth counterparts.

Quality signal

The quality signal aims to avoid value traps. Some cheap companies deserve to be cheap when permanently impaired. The RAE model incorporates more than 20 measures of quality across four broad categories in order to reach a holistic measure of a company’s financial health. Earnings integrity, distress, investment and profitability represent the four categories that comprise the composite quality score. Earnings integrity favors companies which do not regularly report accrual revenue in excess of cash revenue. Measures of distress such as interest coverage ratio and leverage flag struggling companies in advance of insolvency. The final two components go hand in hand as the RAE model rewards companies which are simultaneously profitable without the need of significant investments to maintain that profitability.

Research Affiliates is a prolific publisher on the topic of quality. The team at Research Affiliates won the 2019 Graham and Dodd Award of Excellence from the CFA Institute for its paper entitled, “What is Quality?” which examined the robustness of various measures of quality when investing.

Momentum signal

While cheaper stocks often represent an opportunity to benefit from mean reversion, immediately buying as prices decline (or immediately selling as prices rise) introduces the risk of trading too early. The RAE investment process recognizes that the market can be slow to react to new information, exhibiting short-term persistence (or momentum) in their performance. Accordingly, RAE incorporates a composite momentum signal to seek excess return and avoid catching the proverbial falling knife.
The momentum signal used in RAE is a combination of three measures: beta-adjusted momentum, volatility-adjusted momentum, and “fresh” momentum. The first two measures incorporate risk to improve performance during momentum turning points by focusing on stocks with strong recent returns not simply explained by market beta or high volatility. The final measure focuses on stocks with strong price momentum that has only recently begun, or is “fresh.” Research Affiliates labels the momentum of stocks that have appreciated faster than the broad market two years in a row as “stale” (suggesting that momentum may be about to run out of steam and mean revert), as opposed to stocks which have exhibited momentum only during the recent one year and therefore more likely to persist, or “fresh.”

**STEP 2: WEIGHTING SELECTED STOCKS BASED ON THEIR RAE SCORE AND FUNDAMENTAL SIZE**

Once stocks are selected for the portfolio based on their RAE Score, each holding’s weight is a product of the strength of that score and the company’s fundamental size. Companies with the strongest RAE Score and the largest fundamental size will get the highest weights in the portfolio. Fundamental measures of size serve as proxies for liquidity. Their use as anchors of position size ensures the RAE process results in highly liquid portfolios, potentially lowering transaction costs as a result.

**STEP 3: IMPROVING REBALANCING AS PRICES MOVE**

RAE employs an improved rebalancing process that spreads trading of the portfolio across all four quarters of the year, reducing market impact and mitigating trading risk. An RAE portfolio is divided into four identical tranches; each tranche is a full-fledged model portfolio that is traded once a year. At each quarterly rebalance point, the RAE Score for each company is refreshed to incorporate current data. Research Affiliates has found that this staggered approach to rebalancing results in lower implementation costs and increased capacity while keeping portfolio turnover low.

**PIMCO RAE METHODOLOGY**

1. Select stocks from starting universe using signals that historically indicate higher expected returns
2. Weight stocks by RAE Score and fundamental measure of company size
3. Rebalance the portfolio back to model weights, contra-trading against recent price movements

**1. Value**

**2. Quality**

**3. Momentum**

**RAE Score**

**1. Sales**

**2. Cash Flow**

**3. Dividends**

**4. Book Value**

**Quarterly Rebalance**

SOURCE: Research Affiliates
How do investors use PIMCO RAE Funds?

PIMCO RAE Funds are available across a range of equity exposures, including U.S. large cap, U.S. small cap, international, emerging, and global markets – and can serve a number of important roles in a portfolio.

Replacing traditional active managers. PIMCO RAE takes a systematic approach which results in a completely emotionless, disciplined strategy that seeks to buy low and sell high. The strategy has the same objectives as a traditional active value manager but seeks more consistent excess returns at lower fees.

Enhancing the core. In today’s environment of high asset prices, beta alone may no longer be enough, and passive allocations may not deliver the returns investors need to meet their goals. PIMCO RAE strategies may enhance equity exposure by providing broad diversification, economic representation, low turnover, and the potential for needed excess returns.

Benefiting from the return of the value premium. Given their dynamic exposure to value stocks, PIMCO RAE strategies can be a reliable way to benefit from potential value outperformance. The systematic nature of the process and the ongoing research that evolve the model result in portfolios that “load up” on value stocks when they are cheap but also reduce that deep value bias when value stocks become more expensive.

1 FOMO = Fear Of Missing Out
2 Most reliable records of value’s performance go back to 1963
# PIMCO RAE: Solid Long-Term Track Record

Since inception annualized excess return (after fees)

<table>
<thead>
<tr>
<th>Fund</th>
<th>Benchmark</th>
<th>Excess returns</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIMCO RAE US Fund (PKAIX)</td>
<td>7.32</td>
<td>0.87</td>
</tr>
<tr>
<td>PIMCO RAE US Small Fund (PMJIX)</td>
<td>6.87</td>
<td>1.08</td>
</tr>
<tr>
<td>PIMCO RAE Emerging Markets Fund (PEIFX)</td>
<td>4.84</td>
<td>1.02</td>
</tr>
<tr>
<td>PIMCO RAE International Fund (PPYIX)</td>
<td>1.67</td>
<td>1.80</td>
</tr>
<tr>
<td>PIMCO RAE Global Fund (PFQIX)</td>
<td>5.01</td>
<td>0.86</td>
</tr>
</tbody>
</table>

Inception date

- PIMCO RAE US Fund: 22 Dec '04
- PIMCO RAE US Small Fund: 29 Sep '05
- PIMCO RAE Emerging Markets Fund: 31 May '06
- PIMCO RAE International Fund: 05 Jun '15
- PIMCO RAE Global Fund: 05 Jun '15

Benchmark

- Russell 1000 Value Index
- Russell 2000 Value Index
- MSCI EM Value Index
- MSCI EAFE Value Index
- MSCI ACWI Value Index

Strategy

- Large Value
- Small Value
- Diversified Emerging Markets
- Foreign Large Value
- World Large Stock

As of 31 December 2020. Source: PIMCO. Performance net of fees. Past performance is not a guarantee or a reliable indicator of future results. Performance quoted represents past performance. Past performance is not a guarantee or a reliable indicator of future results. Investment return and the principal value of an investment will fluctuate. Shares may be worth more or less than original cost when redeemed. Current performance may be lower or higher than performance shown. For performance current to the most recent month end, visit pimco.com or call 888.87.PIMCO.

Performance is shown for the institutional share class after fees. Performance is average annualized total return. Periods longer than 1 year are annualized.

**Fund Performance (% Net):**

<table>
<thead>
<tr>
<th>Fund</th>
<th>1 yr.</th>
<th>5 yr.</th>
<th>10 yr.</th>
<th>S.I.</th>
<th>S.I. Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIMCO RAE US</td>
<td>3.93</td>
<td>10.17</td>
<td>11.04</td>
<td>8.19</td>
<td>22 Dec '04</td>
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<tr>
<td>Russell 1000 Value Index</td>
<td>2.80</td>
<td>9.74</td>
<td>10.50</td>
<td>7.32</td>
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<tr>
<td>alpha vs. Russell 1000 Value Index (bps)</td>
<td>113</td>
<td>43</td>
<td>54</td>
<td>87</td>
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<tr>
<td>PIMCO RAE US Small</td>
<td>6.88</td>
<td>9.54</td>
<td>9.50</td>
<td>7.95</td>
<td>29 Sep '05</td>
</tr>
<tr>
<td>Russell 2000 Value Index</td>
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<td>9.65</td>
<td>8.66</td>
<td>6.87</td>
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<tr>
<td>alpha vs. Russell 2000 Value Index (bps)</td>
<td>224</td>
<td>-11</td>
<td>84</td>
<td>108</td>
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<tr>
<td>PIMCO RAE Emerging Markets</td>
<td>0.87</td>
<td>11.41</td>
<td>1.80</td>
<td>5.86</td>
<td>31 May '06</td>
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<tr>
<td>MSCI EM Value Index</td>
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<td>0.90</td>
<td>4.84</td>
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<tr>
<td>alpha vs. MSCI EM Value Index (bps)</td>
<td>-461</td>
<td>223</td>
<td>90</td>
<td>102</td>
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<tr>
<td>PIMCO RAE International</td>
<td>2.29</td>
<td>6.37</td>
<td>-</td>
<td>3.47</td>
<td>05 Jun '15</td>
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<tr>
<td>MSCI EAFE Value Index</td>
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<td>4.20</td>
<td>-</td>
<td>1.67</td>
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<td>alpha vs. MSCI EAFE Value Index (bps)</td>
<td>492</td>
<td>217</td>
<td>-</td>
<td>180</td>
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<td>PIMCO RAE Global</td>
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<td>8.76</td>
<td>-</td>
<td>5.87</td>
<td>05 Jun '05</td>
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<tr>
<td>MSCI ACWI Value</td>
<td>-0.33</td>
<td>7.38</td>
<td>-</td>
<td>5.01</td>
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<tr>
<td>alpha vs. MSCI ACWI Value (bps)</td>
<td>317</td>
<td>138</td>
<td>-</td>
<td>86</td>
<td></td>
</tr>
</tbody>
</table>

Performance quoted represents past performance. Past performance is not a guarantee or a reliable indicator of future results. Investment return and the principal value of an investment will fluctuate. Shares may be worth more or less than original cost when redeemed. Current performance may be lower or higher than performance shown. For performance current to the most recent month end, visit pimco.com or call 888.87.PIMCO.

Performance is shown for the institutional share class after fees. Performance is average annualized total return. Periods longer than 1 year are annualized.

As of 31 December 2020

Source: PIMCO, MSCI, Russell, Standard & Poor’s, Bloomberg. These strategies experienced high or unusual performance for one or more periods. High performance is defined as an unusual growth in alpha between reporting periods or total return when measured to historical returns. Unusual performance is defined as an unusual change in performance (+/−) between reporting periods and the portfolio experienced unusual performance for one or more periods. No assurance is being made that this favorable market activity will be repeated.
Investors should consider the investment objectives, risks, charges and expenses of the funds carefully before investing. This and other information are contained in the Fund's prospectus, which may be obtained by visiting pimco.com or contacting your PIMCO representative. Please read the prospectus carefully before you invest.

Past performance is not a guarantee or a reliable indicator of future results. The performance figures presented reflect the total return performance for the Institutional shares and reflect changes in share price and reinvestment of dividend and capital gain distributions. All periods longer than one year are annualized. The minimum initial investment for Institutional class shares is $1 million; however, it may be modified for certain financial intermediaries who submit trades on behalf of eligible investors.

A privately offered fund managed by the fund’s Sub-Adviser was reorganized into the fund as of 5 June 2015. For periods prior to the commencement of fund operations, the fund’s performance is that of the private fund. The performance of the private fund has not been restated to reflect the fees, estimated expenses and fee waivers and/ or expense limitations applicable to each share class of the fund. If the performance of the private fund had been restated to reflect the applicable fees and expenses of each share class of the fund, the performance may have been higher or lower. The private fund began operations on the inception date specified and, on 5 June 2015, was reorganized into the fund. Prior to the reorganization, the private fund had an investment objective and investment strategies that were substantially similar to the fund, and was managed in a manner that complied, in all material respects, with the guidelines and restrictions of the fund. However, the private fund was not registered as an investment company under the Investment Company Act of 1940 and was not subject to its requirements or requirements imposed by the Internal Revenue Code of 1986 which, if applicable, may have adversely affected its performance.

The performance of each class of shares of the fund will differ as a result of the different levels of fees and expenses applicable to each class of shares.

Investments made by a fund and the results achieved by a fund are not expected to be the same as those made by any other PIMCO-advised fund, including those with a similar name, investment objective or policies. A new or smaller fund’s performance may not represent how the Fund is expected to or may perform in the long-term. New funds have limited operating histories for investors to evaluate and new and smaller funds may not attract sufficient assets to achieve investment and trading efficiencies. A fund may be forced to sell a comparatively large portion of its portfolio to meet significant shareholder redemptions for cash, or hold a comparatively large portion of its portfolio in cash due to significant share purchases for cash, in each case when the Fund otherwise would not seek to do so, which may adversely affect performance.

A word about risk: Equities may decline in value due to both real and perceived general market, economic and industry conditions. Investments in value stocks involve the risk that the market’s value assessment may differ from the manager and the performance of the securities may decline. Investing in foreign-denominated and/or -domiciled securities may involve heightened risk due to currency fluctuations, and economic and political risks, which may be enhanced in emerging markets. Investing in distressed companies (both debt and equity) is speculative and may be subject to greater levels of credit, issuer and liquidity risks, and the repayment of default obligations contains significant uncertainties; such companies may be engaged in restructurings or bankruptcy proceedings. Currency rates may fluctuate significantly over short periods of time and may reduce the returns of a portfolio. Investing in securities of smaller companies tends to be more volatile and less liquid than investing in securities of larger companies. REITs are subject to risk, such as poor performance by the manager, adverse changes to tax laws or failure to qualify for tax-free pass-through of income. Model Risk is the risk that the Fund’s investment models used in making investment allocation decisions may not adequately take into account certain factors and may result in a decline in the value of an investment in the Fund. The RAE Global Fund invests in other PIMCO funds and performance is subject to underlying investment weightings which will vary. The cost of investing in this fund will generally be higher than the cost of investing in funds that invest directly in individual stocks and bonds. Derivatives may involve certain costs and risks, such as liquidity, interest rate, market, credit, management and the risk that a position could not be closed when most advantageous. Investing in derivatives could lose more than the amount invested. The funds are non-diversified, which means that they may invest their assets in a smaller number of issuers than a diversified fund.

The Russell 1000® Value Index measures the performance of large and midcapitalization value sectors of the U.S. equity market, as defined by FTSE Russell. The Russell 1000® Value Index is a subset of the Russell 1000® Index, which measures the performance of the large and midcapitalization sector of the U.S. equity market.

The Russell 2000® Value Index is a subset of the Russell 2000® Index. Russell 2000® Index is composed of 2,000 of the smallest companies in the Russell 3000 Index and is considered to be representative of the small cap market in general. It is not possible to invest directly in an unmanaged index. The MSCI Emerging Markets Value Index captures large and mid-cap securities exhibiting overall value style characteristics across 24 emerging markets countries. The value investment style characteristics for index construction of the MSCI Emerging Markets Value Index are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield. The MSCI EAFE Value Index captures large and mid-cap securities exhibiting overall value style characteristics across 23 developed markets countries and 24 emerging markets countries. The value investment style characteristics for index construction of the MSCI All Country World Value Index are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield. It is not possible to invest directly in an unmanaged index.

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