

John Hancock Multimanager Lifestyle Growth Portfolio

Class 5/JHLGX

ANNUAL SHAREHOLDER REPORT | DECEMBER 31, 2024

This annual shareholder report contains important information about the John Hancock Multimanager Lifestyle Growth Portfolio (the fund) for the period of January 1, 2024 to December 31, 2024. You can find additional information about the fund at jhinvestments.com/underlying-funds. You can also request this information by contacting us at 800-344-1029.

What were the fund costs during the last year?

(Based on a hypothetical \$10,000 investment)

Fund (Class)	Costs of a \$10,000 investment	Costs paid as a percentage of a \$10,000 investment
Multimanager Lifestyle Growth Portfolio (Class 5/JHLGX)	\$14	0.13%

Management's Discussion of Fund Performance

SUMMARY OF RESULTS

Multimanager Lifestyle Growth Portfolio (Class 5/JHLGX) returned 12.05% for the year ended December 31, 2024. Global equities performed well in 2024, but much of the gain came from a narrow group of mega-cap, technology-related stocks that drove sizable outperformance for the U.S. growth style. While value stocks, developed-market international equities, and emerging markets equities all recorded positive returns, they didn't keep up with the headline global indexes. Bonds also produced gains, with credit-oriented categories and shorter-dated debt producing the best results. Longer-term securities and other rate-sensitive market segments lagged.

TOP PERFORMANCE CONTRIBUTORS

The fund's equity allocation made the largest contribution | U.S. large- and mid-cap stocks were the leading contributors to absolute performance.

Other holdings in equities | International large-cap stocks, defensive equities, U.S. small caps and emerging markets equities also contributed.

The fixed-income allocation | Emerging-market debt, intermediate-term bonds and bank loans were top contributors. High-yield bonds, shortterm Treasury Inflation Protected Securities and a multi-sector bond fund also helped results.

TOP PERFORMANCE DETRACTORS

Select holdings in the real assets portfolio | While the real assets allocation contributed overall, positions in international real estate investment trusts and energy stocks detracted from absolute performance.

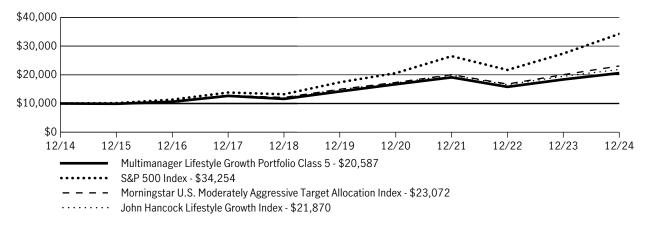
U.S. Treasury STRIPS (Separate Trading of Registered Interest and Principal of Securities) | Certain holdings in this area were adversely affected by their above-average interest-rate sensitivity.

The views expressed in this report are exclusively those of the portfolio management team at Manulife Investment Management (US) LLC, and are subject to change. They are not meant as investment advice.

Fund Performance

The following graph compares the initial and subsequent account values at the end of each of the most recently completed 10 fiscal years of the fund (or for the life of the fund, if shorter). It assumes a \$10,000 initial investment in the fund and in an appropriate, broad-based securities market index for the same period.

GROWTH OF \$10,000



AVERAGE ANNUAL TOTAL RETURN	1 Year	5 Years	10 Years
Multimanager Lifestyle Growth Portfolio (Class 5/JHLGX)	12.05%	7.72%	7.49%
S&P 500 Index	25.02%	14.53%	13.10%
Morningstar U.S. Moderately Aggressive Target Allocation Index	15.15%	9.04%	8.72%
John Hancock Lifestyle Growth Index	12.36%	7.98%	8.14%

The fund has designated S&P 500 Index as its broad-based securities market index in accordance with the revised definition for such an index.

Performance figures assume all distributions have been reinvested and reflect the beneficial effect of any expense reductions. Past performance does not guarantee future results. The return and principal value of an investment will fluctuate so that shares, when redeemed, may be worth more or less than their original cost. Due to market volatility and other factors, the fund's current performance may be higher or lower than the performance shown. The graph and table do not reflect the deduction of taxes that a shareholder would pay on fund distributions or redemption of fund shares. It is not possible to invest directly in an index.

Fund Statistics

Fund net assets	\$8,518,676,839
Total number of portfolio holdings	43
Total advisory fees paid (net)	\$8,334,675
Portfolio turnover rate	13%

Graphical Representation of Holdings

The table below shows the investment makeup of the fund, representing a percentage of the total net assets of the fund.

ASSET ALLOCATION

Affiliated investment companies	96.4%
Equity	75.3%
U.S. large cap	27.1%
International equity	19.5%
U.S. mid cap	10.2%
U.S. small cap	6.3%
Emerging-market equity	5.9%
Large blend	5.5%
Sector equity	0.8%
Fixed income	14.9%
Intermediate bond	6.5%
Multi-sector bond	2.5%
Emerging-market debt	1.8%
Bank loan	1.5%
High yield bond	1.3%
Short-term bond	1.3%
Alternative and specialty	6.2%
Sector equity	5.2%
Absolute return	1.0%
U.S. Government	3.6%

Holdings may not have been held by the fund for the entire period and are subject to change without notice. Portfolio composition is subject to review in accordance with the fund's investment strategy and may vary in the future. Current and future portfolio holdings are subject to risk and may change at any time.

The fund is subject to various risks as described in the fund's prospectus. For more information, please refer to the "Principal risks" section of the prospectus.

Availability of Additional Information

At jhinvestments.com/underlying-funds, you can find additional information about the fund, including the fund's:

- **Prospectus**
- Financial information
- Fund holdings
- Proxy voting information

This report is for the information of the shareholders in this fund. It is not authorized for distribution to prospective investors unless preceded or accompanied by the fund's prospectus.

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