

# INTERNATIONAL GROWTH ADR STRATEGY - WRAP

QUARTERLY FACT SHEET | 31 MARCH 22



## INVESTMENT STRATEGY

The Strategy uses a rigorous bottom-up fundamental research process to identify primarily non-U.S. companies with robust, high-quality business models and durable growth prospects to drive strong risk-adjusted returns over time. High conviction and benchmark-agnostic, the Strategy pursues growth prospects across geographies, market caps and sectors to uncover the most attractive opportunities. Our three-basket portfolio construction process enhances diversification and balances risk exposures.

## PORTFOLIO MANAGERS

**Sean Sun, CFA**  
Began with firm in 2012.  
Industry experience since 2004.

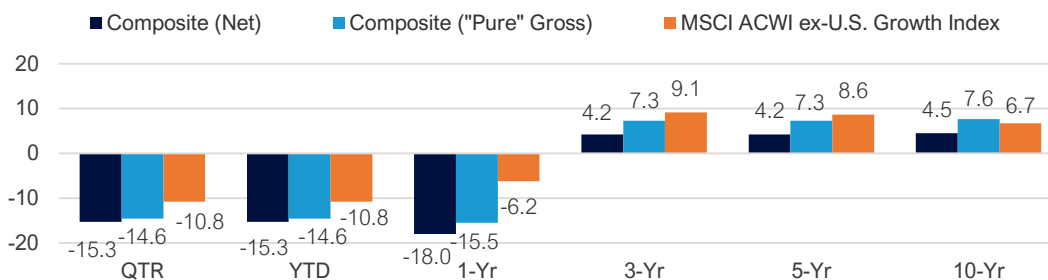
**Nick Anderson, CFA**  
Began with firm in 2016.  
Industry experience since 2011.

**Emily Leveille, CFA**  
Began with firm in 2021.  
Industry experience since 2011.

Supported by the entire Thornburg investment team.

## INVESTMENT RESULTS

### ANNUALIZED RETURNS (%)



### CALENDAR YEAR RETURNS (%)

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Composite (Net)	19.55	37.83	-14.33	1.65	-6.15	30.87	-20.32	22.78	32.57	-6.35
Composite ("Pure" Gross)	23.09	41.86	-11.72	4.69	-3.31	34.70	-17.88	26.40	36.46	-3.53
MSCI ACWI ex-U.S. Growth Index	16.67	15.49	-2.65	-1.25	0.13	32.01	-14.43	27.34	22.20	5.09
Excess Return (Gross)	6.42	26.37	-9.07	5.95	-3.44	2.69	-3.46	-0.94	14.25	-8.62

In US\$ terms. Returns may increase or decrease as a result of currency fluctuations. Periods less than one year are not annualized.

Performance data for the International Growth ADR Strategy is from the International Growth ADR Wrap Composite, inception date of 1 May 2010. The International Growth ADR Wrap Composite includes discretionary wrap accounts invested in the International Growth ADR Strategy. Returns are calculated using a time-weighted and asset-weighted calculation including reinvestment of dividends and income. Periods less than one year are not annualized. Individual account performance will vary. The performance data quoted represents past performance; it does not guarantee future results. "Pure" Gross returns do not reflect the deduction of any expenses, including trading costs and are supplemental to net returns. Beginning 1 January 2009, net returns reflect the deduction of the maximum total wrap fee which is currently 3% per annum. Net returns are derived from subtracting 1/12th of 3% from each account's monthly gross return. The total wrap fee includes all charges for the trading costs, portfolio management, custody and other administrative fees. Prior to 1 January 2009 net returns reflect actual wrap fees for each account in the composite. Beginning 1 January 2014 returns reflect the deduction of transaction costs for some accounts in the composite. The standard fee schedule currently in effect is: 1% to 3% on all assets. Fees may be negotiated in lieu of the standard fee schedule. Actual fees may vary depending on, among other things, the applicable fee schedule and portfolio size. The firm's fees are available upon request and also may be found in Part II of its Form ADV.

## STRATEGY PROFILE

### BENCHMARK

MSCI ACWI ex-U.S. Growth Index

### eVESTMENT UNIVERSE

SMA/Wrap – Non-U.S.  
Diversified Equity

### EXPECTATIONS

Excess return 100-300 bps annualized over a full market cycle

Ex-ante tracking error range 4–8%

### HOLDINGS INFORMATION

Typically 40–65 holdings

Active weight usually 1-5%

### EXPECTED TURNOVER RANGE

25–75% (in a typical year)

### MARKET CAPITALIZATION

All Cap. Not required, but typically do not invest in <\$1Billion USD

### CASH EXPOSURE

<10% under normal conditions

### INDUSTRY EXPOSURE

Maximum of 25%

### COUNTRY EXPOSURE

Maximum of 25%

### EMERGING MARKETS EXPOSURE

Typically 15–35% of portfolio

## AVAILABLE VEHICLES

Separate Account

Retail Managed Accounts

## PORTFOLIO CHARACTERISTICS

### RISK STATISTICS

(GROSS VS. MSCI ACWI EX-U.S. GROWTH INDEX)

	3-YR	5-YR
Annualized Alpha	-1.74%	-1.42%
Beta	1.03	1.06
Standard Deviation	17.31%	16.25%
Tracking Error	6.17%	6.06%
Sharpe Ratio	0.38	0.38
Information Ratio	-0.29	-0.21
Up Capture	102.96%	103.05%
Down Capture	113.77%	112.07%

Past performance does not guarantee future results.

### SECTOR ALLOCATION (%)

SECTOR ALLOCATION (%)	REP. ACCT.	RELATIVE WEIGHT
Information Technology	25.1	6.4
Communication Services	13.8	7.1
Consumer Discretionary	11.8	-2.2
Industrials	11.6	-4.2
Health Care	9.6	-2.7
Materials	6.6	-0.5
Consumer Staples	6.3	-4.3
Financials	5.3	-5.8
Energy	1.0	-0.9
Cash	8.9	

### FIVE LARGEST COUNTRIES† (%)

FIVE LARGEST COUNTRIES† (%)	REP. ACCT.	RELATIVE WEIGHT
United States	15.5	15.5
Switzerland	11.8	3.8
Netherlands	10.0	5.5
United Kingdom	9.4	2.6
France	8.0	0.0

† Holdings are classified by country of risk as determined by MSCI and Bloomberg.

### PORTFOLIO STATISTICS

	REP. ACCT.	MSCI ACWI EX-U.S. GROWTH INDEX
Active Share	80.9%	--
Weighted Average Market Cap.	\$171.8B	\$116.3B
Median Market Cap	\$45.6B	\$9.6B
Price to Earnings (Forecast 1-Fiscal Year)	23.0x	20.6x
Est 3-5 Yr EPS Growth	15.8%	16.4%
Price-to-Book	5.6x	3.6x
Price-to-Cash Flow	19.8x	15.3x
Return on Assets	9.7%	9.6%

### TEN LARGEST HOLDINGS (%)

(AS OF 28 FEBRUARY 22)

	REP. ACCT.
Taiwan Semiconductor Manufacturing Co. Ltd.	7.1
Nestle S.A.	6.2
Tencent Holdings Ltd.	5.5
AstraZeneca plc	4.5
ASML Holding N.V.	4.0
Adyen N.V.	3.2
MercadoLibre, Inc.	2.8
LVMH Moet Hennessy Louis Vuitton SE	2.8
Mastercard, Inc.	2.7
Visa, Inc.	2.7

### TOP REGIONS† (%)

TOP REGIONS† (%)	REP. ACCT.	RELATIVE WEIGHT
Eurozone	25.9	6.5
Other Developed Europe & MidEast	15.6	0.8
Developed North America	15.5	7.6
Emerging Asia	13.5	-10.0
UK	9.4	2.6
Japan	5.1	-8.7

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\*Includes assets under management (\$44.2B) and assets under advisement (\$1.7B).

## For Presentation to Morgan Stanley Wealth Management Clients.

This presentation is to report on the investment strategies as reported by Thornburg Investment Management and is for illustrative purposes only. The information herein is obtained from multiple sources and believed to be reliable. Information has not been verified by Morgan Stanley Wealth Management, and may differ from documents created by Morgan Stanley Wealth Management. The client should refer to the Profile. This must be preceded or accompanied by the Morgan Stanley Wealth Management Access Profile, which can be obtained from your Financial Advisor. For additional information on other programs, please speak to your Financial Advisor.

### IMPORTANT INFORMATION

Source: FactSet, and Thornburg.

Unless otherwise noted, all data is as of 31 March 22.

Investments in the Strategy carry risks, including possible loss of principal. Carefully consider the Strategy's investment objectives, risks, and expenses before investing. There is no guarantee that the portfolio will meet its investment objectives.

Diversification does not assure or guarantee better performance and cannot eliminate the risk of investment losses. Portfolio characteristics are derived using currently available data from independent research resources that are believed to be accurate. Portfolio attributes can and do vary. Portfolios invested in a limited number of holdings may expose an investor to greater volatility. There is no guarantee that the Strategy will meet its investment objectives or expectations. Cash may also include cash equivalents and currency forwards.

Portfolio holdings and characteristics shown herein are from a representative account managed within the investment composite. The representative account is selected based on account characteristics that Thornburg believes accurately represent the investment strategy as a whole. Should these characteristics change materially, Thornburg may select a different representative account. Holdings may change daily and may vary among accounts, which may contribute to different investment results. The representative account information is supplemental to the strategy's composite and GIPS compliant presentation.

The information provided in this report should not be considered a recommendation to purchase or sell any particular security. There is no assurance that any securities discussed herein will remain in an account's portfolio at the time you receive this report or that securities sold have not been repurchased. The securities discussed may not represent an account's entire portfolio and in the aggregate may represent only a small percentage of an account's portfolio holdings. It should not be assumed that any of the securities transactions or holdings discussed were or will prove to be profitable, or that the investment recommendations or decisions we make in the future will be profitable or will equal the investment performance of the securities discussed herein.

The MSCI ACWI ex USA Growth Net Total Return USD Index is a market capitalization weighted index that includes growth companies in the developed and emerging markets throughout the world, excluding the United States.

Portfolio construction will have significant differences from that of a benchmark index in terms of security holdings, industry weightings, asset allocations and number of positions held, all of which may contribute to performance, characteristics and volatility differences. Investors may not make direct investments into any index.

Active Share – A measure of the percentage of stock holdings in a manager's portfolio that differ from the benchmark index.

Alpha – A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. A positive alpha figure indicates the portfolio performed better than its beta would predict. In contrast, a negative alpha indicates under-performance, given the expectations established by the beta.

Beta – A measure of market-related risk. Less than one means the portfolio is less volatile than the index, while greater than one indicates more volatility than the index.

P/E – Price/Earnings ratio (P/E ratio) is a valuation ratio of a company's current share price compared to its per-share earnings. P/E equals a company's market value per share divided by earnings per share. Forecasted P/E is not intended to be a forecast of the fund's future performance.

Sharpe Ratio – A risk-adjusted measure developed by Nobel Laureate William Sharpe. It is calculated by using standard deviation and excess return to determine reward per unit of risk. The higher the Sharpe Ratio, the better the fund's historical risk-adjusted performance. The Geometric Sharpe ratio is calculated for the past three-year period by dividing a fund's annualized excess returns by its annualized standard deviation.

Return on Assets (ROA) – An indicator of how profitable a company is relative to its total assets. ROA gives an idea as to how efficient management is at using its assets to generate earnings.

Information Ratio – A measure of the consistency of excess returns over the benchmark. It is the excess return divided by the tracking error (or standard deviation of excess return). The higher the information ratio, the higher the expected return of the portfolio given the amount of risk taken.

Tracking Error – A measure of how closely a portfolio follows its benchmark. Typically, it's the standard deviation of the difference in returns between a portfolio and the benchmark. Actively managed portfolios tend to have a higher tracking error compared to passively managed investments.

Standard Deviation - A measure of the dispersion of a set of data from its mean. The more spread apart the data, the higher the deviation. Values within one standard deviation of the mean represent approximately two-thirds of the data set, assuming a normal distribution.

Upside/Downside Capture Ratio - A ratio that shows whether a given fund has outperformed - gained more or lost less than - a broad market benchmark during periods of market strength and weakness, and if so, by how much.

Price/Book ratio (P/B ratio) - A ratio used to compare a stock's market value to its book value. It is calculated by dividing the current closing price of the stock by the latest quarter's book value per share.

Price/Cash Flow - The measure of the market's expectations regarding a firm's future financial health. It is calculated by dividing price per share by cash flow per share.

Earnings per Share (EPS) - The total earnings divided by the number of shares outstanding.

All MPT statistics (alpha, beta, and R-squared) are based on a least-squared regression of the portfolio return over Treasury bills (called excess return) and the excess returns of the benchmark.