

# Quantitative Active Equity

## Investment Philosophy & Approach

We believe that markets are not 100% efficient and pricing inefficiencies exist even in competitive equity markets, primarily due to investor behavior.

We believe in a systematic approach based on fundamental insights is likely to generate consistent performance.

## Differentiated Approach

Geode's unique investment approach consists of a systematic process built upon three key components.

Stock Selection	Factor Timing	Factor Tilting
Alpha Identification Model (AIM)	Optimal Exposure Management (OEM)	Dynamic Factor Allocation (DFA)
<p>Model consists of a Broad set of specialized and traditional factors</p> <p>We can expect a more diverse and stable alpha source, by incorporating information from multiple resources</p>	<p>Factor combination methodology that reacts to change in factor correlations</p> <p>Structurally identical risk and alpha models allow for real-time application</p>	<p>Recognizes the inherent links between some quantitative factors and the market environment</p> <p>We exploit long-term cycles with factor returns by rotating each factor's exposure</p>

## Dedicated Research

- ◆ Research focused on the development of advanced quantitative investment techniques and effective methodologies for implementing those techniques into the portfolio management process.
- ◆ The research team is involved in each aspect of the investment process, from signal generation to portfolio construction.
- ◆ We believe that a collaborative effort between research and portfolio management—throughout the investment process—helps to deliver a consistent result.

## TEAM AT A GLANCE

- ◆ \$11.8 billion in Quantitative Active Equity assets
- ◆ Managing Quantitative Active Equity strategies since 2001
- ◆ Benchmark-specific risk controls
- ◆ Team-based approach
- ◆ Portfolio Managers have 20 years average industry experience

## ABOUT GEODE

- ◆ Systematic global investment solutions across multiple asset classes
- ◆ Founded in 2001
- ◆ Located in Boston, MA
- ◆ Employee Ownership

## ASSETS UNDER MANAGEMENT\*

- ◆ \$612 billion

### Equity Index

~\$592 B

### Quantitative Active

\$11.8 B

### Commodities

\$7.3 B

### Absolute Return and Option Strategies

\$1.2 B

\*Includes AUM of Geode's institutional equity and alternative investment strategies, as well as wealth management solutions

# Quantitative Active Equity Strategies

Strategy	Benchmark	Universe	# of Holdings	Expected Turnover (%)	Targeted Excess Return (bps)	Targeted Tracking Error (bps)	Inception Date
U.S. Large-Cap Core	S&P 500 <sup>®</sup>	1,200	150–300	50-80	100+	100-200	12/31/03
U.S. Large-Cap Value	Russell 1000 <sup>®</sup> Value	1,300	150–300	50-80	100+	100-200	12/31/03
U.S. Large-Cap Growth	Russell 1000 <sup>®</sup> Growth	1,300	150–300	50-80	100+	100-200	12/31/04
U.S. Mid-Cap Core	Russell Mid-Cap <sup>®</sup>	1,800	200–400	70-100	150+	200-300	12/30/05
U.S. Small-Cap Core	Russell 2000 <sup>®</sup>	1,900	300–500	80-100	200+	200-400	12/31/03
International Core	MSCI EAFE	1,000	150–300	50-80	100+	100-200	9/30/04
U.S. Large-Cap Core ex Financials	S&P 500 <sup>®</sup> ex Financials	1,200	150–300	50-80	100+	100-200	12/31/14
Japan Core	TOPIX	1,600	500–1,000	50-80	50+	50-150	6/30/09

## Geode Advantages

**EXPERIENCE** Geode recognizes that the most sophisticated systematic processes benefit from applied fundamental insights. Our investment professionals are experienced in each of their disciplines, and work collaboratively to share expertise for the enrichment of our investment processes.

**RISK MANAGEMENT** Client portfolios are constructed in a disciplined manner with a focus on managing and controlling risk-exposures in an effort to produce optimal risk-adjusted returns.

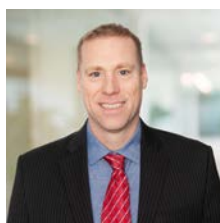
**INSTITUTIONAL INFRASTRUCTURE** A state-of-the-art trading platform and robust operational infrastructure create efficiencies and help to provide scale across investment disciplines.

**RESEARCH** Dedicated to advanced techniques for uncovering alpha sources, Geode's research team is constantly looking for new and repeatable methods of transforming idea flow into applicable investment processes. This centralized research approach helps to ensure that the best ideas are efficiently implemented across investment strategies.

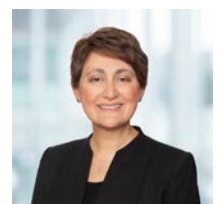
## Team Leadership



**Bobe Simon, CFA**  
*Senior Portfolio Manager*  
 31 years industry experience  
 15 years with firm



**Max Kaufmann**  
*Senior Portfolio Manager*  
 26 years industry experience  
 11 years with firm



**Anna Lester, CFA**  
*Senior Portfolio Manager*  
 19 years industry experience  
 1 year with firm



**Shashi Naik, CFA**  
*Portfolio Manager*  
 15 years industry experience  
 10 years with firm

## CONTACT INFO

**Geode Capital Management**  
 100 Summer Street  
 12<sup>th</sup> Floor  
 Boston, MA 02110

**MAIN:**  
 617-563-4546

**EMAIL:**  
[investments@geodecapital.com](mailto:investments@geodecapital.com)

**WEBSITE:**  
[www.geodecapital.com](http://www.geodecapital.com)

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Investment in a Geode fund is suitable only for sophisticated investors for whom an investment in such fund does not constitute a complete investment program and who fully understand and are willing to assume the risks involved in a Geode fund. You are urged to review the full investment history of each strategy described herein in order to obtain a complete understanding of methods used to calculate the charts and tables contained in this report. Such information can be obtained by contacting us. Also, the investments relating to the strategies described herein were not made with a view towards accommodating your specific needs, financial concerns or investment objectives. References to market or composite indices, benchmarks or other measures of relative market performance over a specified period of time (each, an "index") are provided for your information only. Reference to this index does not imply that the portfolio will achieve returns, volatility or other results similar to the index. The composition of the index may not reflect the manner in which a portfolio is constructed in relation to expected or achieved returns, portfolio guidelines, restrictions, sectors, correlations, concentrations, volatility or tracking error targets, all of which are subject to change over time. Portfolio characteristics, including specific holdings, contributors to performance, and country, sector and industry exposure, are as of the date indicated and are subject to change without notice. Information is reported on a delayed basis (as of date indicated) to protect the confidentiality of this information, and the reported information may differ significantly from current information. More current information is available on a confidential basis. Portfolio characteristics illustrate the application of Geode's investment style only and should not be considered a recommendation by Geode. References to investment objectives, target returns or other goals Geode seeks to achieve in managing a fund or account are aspirational only and should not be considered a guarantee that such results will be achieved. Any portfolio risk management processes discussed include an effort to monitor and manage risk, but should not be confused with and do not imply low risk. There is no guarantee that a particular portfolio will meet its investment objective. Risk management is no guarantee of future performance. Opinions expressed are current opinions as of the date appearing in this material only. No part of this material may be duplicated in any form by any means or redistributed without Geode's prior written consent. This marketing presentation supersedes any prior marketing presentation on the Geode funds. The indices are unmanaged, not available for direct investment and not subject to fees.

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