

# O'Shaughnessy All Cap Core

September 30, 2022

## Investment Philosophy

We believe in applying empirical, fundamental research to uncover strong quantitative equity strategies. We have conducted research covering more than 50 years of market data to identify the characteristics that historically have led to strong stock selection. This research forms the basis of each of our strategies. Our process is generally transparent. We select stocks in a logical, unemotional way, appealing to common sense. We do not allow short-term market events to distract us from our discipline.

## Investment Strategy

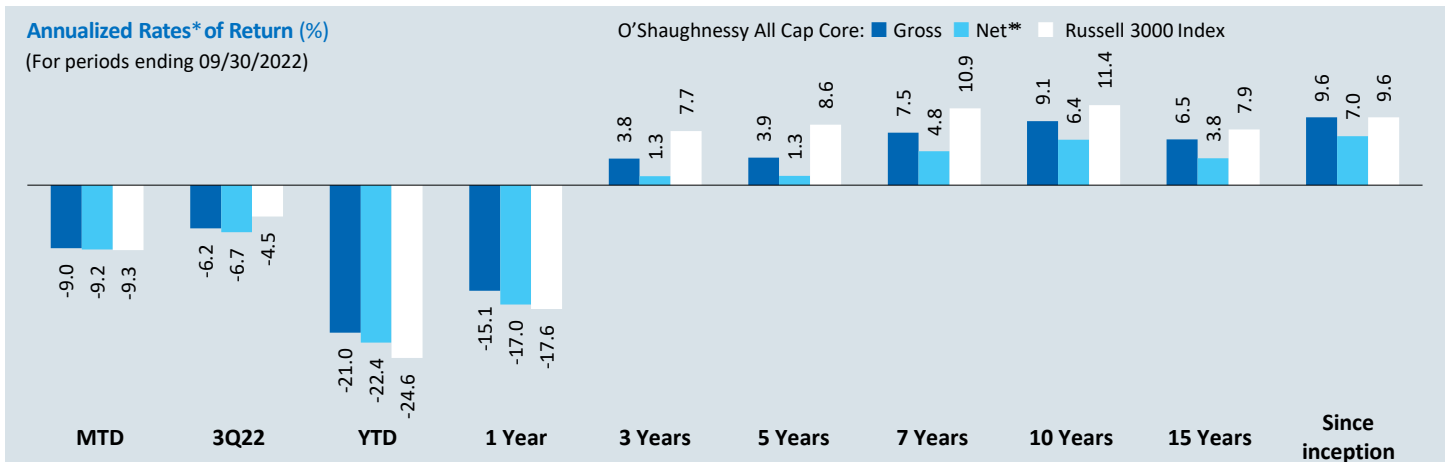
Seeks to provide long-term appreciation through exposure to domestic equities that the manager believes have better quality, valuation, momentum and Shareholder Yield\*\* across market capitalization ranges. Stocks are strategically weighted and broadly constrained by market capitalization, sector, and industry. O'Shaughnessy All Cap Core is our most diversified domestic strategy by selection factor, investment style, and market capitalization.

## Characteristics

Holdings Based <sup>1</sup>	Portfolio	Russell 3000 Index	Relative Advantage
Price/Earnings Ratio	7.7	16.9	54% Cheaper
Price/Sales Ratio	0.8	2.0	60% Cheaper
1-Year Historical Earnings Growth Rate (%)	101.0	46.6	117% Higher
Trailing 12-Month Price Appreciation (%)	3.1	-9.9	131% Higher
Market Cap (Weighted Average)	40,114	399,027	—
Market Cap (Median)	12,144	1,842	—
Approximate Number of Holdings	99	2,986	—
Approximate Turnover (% LTM)	72.4	—	—
Active Share (%)	89.5	—	—

Returns Based <sup>2</sup>	Portfolio Gross	Portfolio Net	Russell 3000 Index
Standard Deviation (%)	16.0	16.0	15.2
Downside Standard Deviation (%)	11.0	11.3	10.2
Sharpe Ratio	0.53	0.36	0.56
Beta	1.00	1.00	1.00
Information Ratio	0.00	-0.55	—
5 Year Tracking Error (%)	6.0	6.1	—
Downside Capture (%)	101.9	106.0	100.0
Upside Capture (%)	101.9	94.1	100.0

<sup>1</sup> Based on a group of representative accounts. <sup>2</sup> Since inception:01/01/2003.



## Annual Rates of Return (%)

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD 2022
All Cap Core (Gross)	38.4	15.0	13.1	17.1	11.3	-35.8	24.1	18.5	1.7	12.0	44.2	7.9	-0.9	16.7	18.7	-9.8	21.5	-0.1	31.8	-21.0
All Cap Core (Net)**	35.2	12.4	10.5	14.4	8.8	-37.5	20.7	15.3	-1.0	9.2	40.9	5.4	-3.1	14.0	15.6	-12.2	18.2	-2.6	28.9	-22.4
Russell 3000 Index	31.1	11.9	6.1	15.7	5.1	-37.3	28.3	16.9	1.0	16.4	33.6	12.6	0.5	12.7	21.1	-5.2	31.0	20.9	25.7	-24.6

\* Any time period longer than one year is annualized.

\*\* For composite presentation, returns are net at 3% annually, which reflects the highest applicable "wrap" fee charged by any sponsor across our distribution channel. Actual fees may vary account by account.

Investment characteristics and performance are based on O'Shaughnessy Asset Management's Separately Managed Accounts. Should OSAM have another product or investment vehicle with a similar name, investment characteristics and performance may differ.

Stocks with small and mid-sized market capitalizations (those defined by OSAM as less than \$10 billion) may have greater risk and volatility than those with larger market capitalizations.

Past performance is no guarantee of future results. Please see important information at the end of this presentation.

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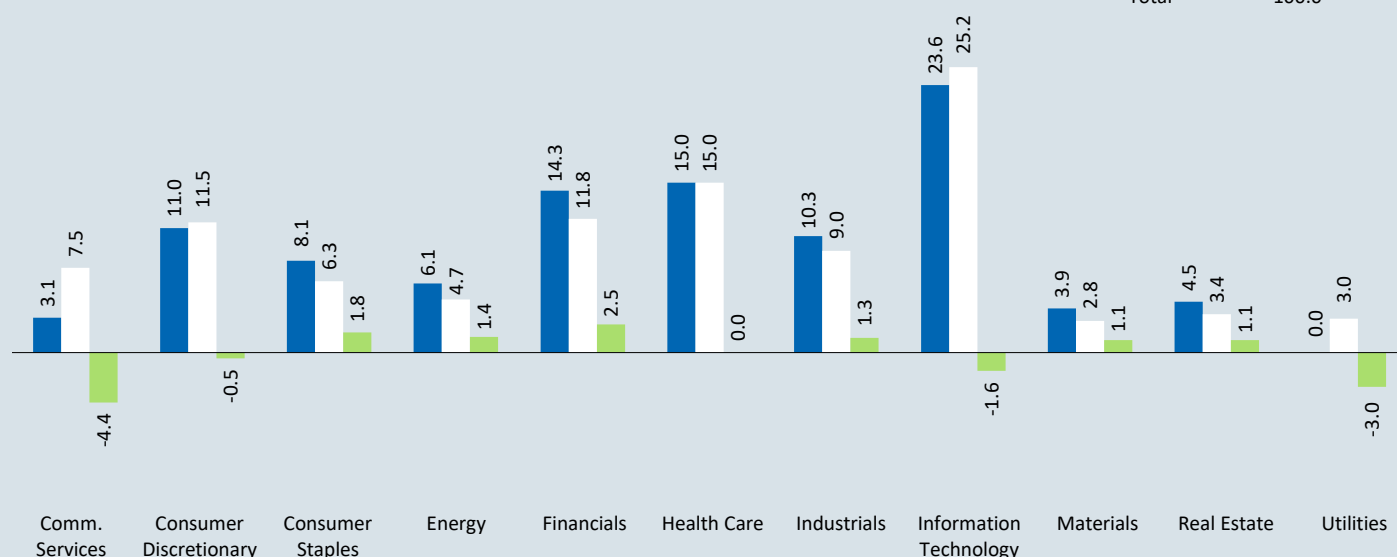
## Top 10 Holdings

	Percent of Portfolio	Percent of Russell 3000
HP INC	2.8	0.1
AMGEN INC	2.8	0.3
NORTHROP GRUMMAN CORP	2.5	0.2
FAIR ISAAC CORP	2.3	0.0
WEYERHAEUSER CO	2.2	0.1
CITIGROUP INC	2.1	0.2
MCKESSON CORP	2.1	0.1
MARATHON PETROLEUM CORP	2.1	0.1
APA CORP	1.9	0.0
WELLS FARGO & CO	1.9	0.4
<b>Total</b>	<b>22.7</b>	<b>1.5</b>

## Current Sector Weightings (%)

(Based on a group of representative accounts as of 09/30/2022)

■ Portfolio ■ Russell 3000 Index ■ Difference



## Market Cap Breakdown

## Percent of Portfolio

Market Cap > \$10 billion	69.3
Market Cap > \$2 billion and < \$10 billion	20.5
Market Cap < \$2 billion	10.2

Total 100.0

Numbers may not add up due to rounding.

## About O'Shaughnessy Asset Management

O'Shaughnessy Asset Management (OSAM) is a Stamford, Connecticut-based quantitative money management firm. We deliver a broad range of equity portfolios, from small cap to large cap and growth to value. Our clients are individual investors, institutional investors, and the high-net-worth clients of financial advisors. The firm's investment strategies are based on the research of James P. O'Shaughnessy, widely regarded as a pioneer in quantitative equity analysis. This research spans more than five decades, and Mr. O'Shaughnessy has been managing money based on its results since 1996.

For more information, please contact O'Shaughnessy Asset Management, LLC  
Six Suburban Avenue, Stamford, CT 06901 | 203.975.3333 | osam.com

The O'Shaughnessy All Cap Core strategy is also known as Diversified Moderate Equity in some channels.

It should not be assumed that your account holdings correspond directly to any comparative indices. Individual accounts may experience greater dispersion than the composite level dispersion (which is an asset weighted standard deviation of the accounts in the composite for the full measurement period). This is due a variety of factors, including but not limited to, the fresh start investment approach that OSAM employs and the fact that each account has its own customized re-balance frequency. Over time, dispersion should stabilize and track more closely to the composite level dispersion. Gross of fee performance computations are reflected prior to OSAM's investment advisory fee (as described in OSAM's written disclosure statement), the application of which will have the effect of decreasing the composite performance results (for example: an advisory fee of 1% compounded over a 10 year period would reduce a 10% return to an 8.9% annual return). Portfolios are managed to a target weight of 3% cash. Account information has been compiled by OSAM derived from information provided by the portfolio account systems maintained by the account custodian(s), and has not been independently verified. In calculating historical asset class performance, OSAM has relied upon information provided by the account custodian or other sources which OSAM believes to be reliable. OSAM maintains information supporting the performance results in accordance with regulatory requirements. Please remember that different types of investments involve varying degrees of risk, that past performance is no guarantee of future results, and there can be no assurance that any specific investment or investment strategy (including the investments purchased and/or investment strategies devised and/or implemented by OSAM) will be either suitable or profitable for a prospective client's portfolio. OSAM is a registered investment adviser with the SEC and a copy of our current written disclosure statement discussing our advisory services and fees continues to remain available for your review upon request.

# O'Shaughnessy All Cap Core Strategy: GIPS Report

Time Period	Composite "Blended"		Composite		Secondary		Internal Equal		3-Yr Ex Post		3-Yr Ex Post		Wrap Accounts as a % of Composite
	Gross Return TWR (%)	Net Return TWR (%)	Primary Index Return (%)	Index Return (%)	Number of Portfolios	Weighted Dispersion	Composite Assets (\$ mil)	Std Dev Composite Gross	3-Yr Ex Post Std Dev Primary Index	Std Dev Secondary Index	Total Firm Assets (\$ mil)		
1Q 22- 3Q 22	-21.02	-22.42	-24.62	-23.88	68	0.43	52.1	20.91	20.66	20.02	6,305.8	73.32	
2021	31.84	28.89	25.66	28.68	84	0.80	91.9	19.86	17.94	17.17	6,885.8	70.00	
2020	-0.06	-2.61	20.89	18.39	105	0.76	85.5	21.12	19.41	18.53	4,824.2	73.68	
2019	21.52	18.22	31.02	31.49	436	0.68	459.9	13.57	12.21	11.92	5,694.1	92.99	
2018	-9.76	-12.19	-5.24	-4.39	464	0.59	398.7	12.16	11.18	10.78	5,150.6	89.29	
2017	18.71	15.64	21.13	20.71	553	0.45	550.4	10.75	10.09	9.90	5,678.7	87.17	
2016	16.74	13.99	12.74	11.96	495	0.59	455.7	11.58	10.88	10.59	5,331.5	83.79	
2015	-0.87	-3.14	0.48	1.38	603	0.87	526.9	11.60	10.58	10.47	5,354.8	73.83	
2014	7.88	5.40	12.56	13.69	792	0.70	717.3	9.93	9.29	8.97	6,952.2	71.87	
2013	44.18	40.94	33.55	32.39	765	0.95	704.5	12.99	12.53	11.94	6,491.6	70.27	
2012	12.04	9.22	16.42	16.00	824	2.08	523.8	15.84	15.73	15.09	4,814.7	71.87	
2011	1.72	-1.00	1.03	2.11	943	2.94	475.2	19.13	19.35	18.71	4,414.3	81.10	
2010	18.51	15.27	16.93	15.06	1023	2.62	484.8	22.46	22.62	21.85	5,063.1	85.87	
2009	24.11	20.75	28.34	26.46	1113	5.49	439.7	20.22	20.32	19.63	4,991.3	88.39	
2008	-35.81	-37.50	-37.31	-37.00	1337	2.62	442.1	17.21	15.79	15.08	4,285.1	88.27	
2007	11.31	8.78	5.14	5.49	1563	3.96	839.9	10.89	8.14	7.68	10,876.7	87.68	
2006	17.13	14.44	15.72	15.79	1244	3.67	664.6	10.73	7.51	6.82	N/A	87.83	
2005	13.12	10.52	6.12	4.91	740	4.02	383.4	12.21	9.49	9.04	N/A	87.46	
2004	15.02	12.41	11.95	10.88	568	4.83	260.4	N/A	N/A	14.86	N/A	84.17	
2003	38.44	35.21	31.06	28.68	316	6.87	139.2	N/A	N/A	18.07	N/A	75.20	

Composite Creation Date: 10/1/2016; Composite Inception Date: 1/1/2003

Primary Index: Russell 3000; Secondary Index: S&P 500

Basis of Presentation:

O'Shaughnessy Asset Management, LLC ("OSAM"), founded in 2007, is a Stamford, CT based quantitative money management firm and an SEC Registered Investment Advisor. OSAM became a wholly owned subsidiary of Franklin Templeton on December 31, 2021. We deliver a broad range of equity strategies, from micro cap to large cap, and growth to value. Our clients are individual investors, institutional investors, and the high-net-worth clients of financial advisors. James O'Shaughnessy and his team left Bear Stearns to form OSAM in July 2007. All the GIPS® rules of portability were met. Jim maintained continuous management of all accounts during the transition from BSAM to OSAM, which was completed in March 2008. The performance of a past firm or affiliation is being attributed to the performance of the current firm for all the periods starting 1996.

OSAM claims compliance with the Global Investment Performance Standards (GIPS®) and has prepared and presented this report in compliance with the GIPS standards. OSAM has been independently verified for the periods of 2007-2021. BSAM was independently verified in compliance with GIPS 2005-2006 and AIMR-PPS for the periods of 2002 - 2004. The verification reports are available upon request. A firm that claims compliance with the GIPS standards must establish policies and procedures for complying with all the applicable requirements of the GIPS standards. Verification provides assurance on whether the firm's policies and procedures related to composite and pooled fund maintenance, as well as the calculation, presentation, and distribution of performance, have been designed in compliance with the GIPS standards and have been implemented on a firm-wide basis. Verification does not provide assurance on the accuracy of any specific performance report.

A list of OSAM's composite and pooled fund descriptions is available upon request.

The O'Shaughnessy All Cap Core strategy (the "Composite") generally seeks to provide long-term appreciation through exposure to domestic equities that the manager believes have better quality, valuation, momentum and yield across market capitalization ranges.

The Composite was created in October 2016 to include all wrap fee, non-wrap fees and pooled funds accounts, and represents the performance of every fee paying account managed in the All Cap Core Strategy, regardless of asset size. The investment advisory fee charged for the management of accounts in the strategy varies.

Institutional separate accounts are charged an annual investment advisory fee of 0.60% on the first \$25 million and 0.55% on assets over \$25 million.

Wrap clients are charged the "wrap" fee set by the sponsor, and fees can vary by sponsor platform. Wrap fees include charges for trading costs, portfolio management, custody, and other administrative fees. For composite performance presentation purposes, wrap fee account returns are net at 3% annually, which reflects the highest applicable "wrap" fee charged by any sponsor across our distribution channel.

Non-wrap fee account returns are net of the actual advisory fees.

Additionally, gross-of-fees returns for wrap fee accounts are "pure" gross returns. "Pure" gross-of-fees returns do not reflect the deduction of any expenses, including transaction costs. "Pure" gross-of-fees returns are supplemental to net returns. A traditional (or "true") gross-of-fees return reflects performance after the reduction of transaction costs but before the reduction of the investment advisory fee. Since wrap fee accounts experience "bundled" pricing, it is often impossible to unbundle the transaction portion to calculate a gross-of-fees return and hence "pure" gross-of-fees returns are made available.

For pooled funds, gross of fee returns are calculated by adding back the monthly portion of the annual management expense ratio to the NAV derived monthly returns, the net of fee return data shown in this presentation represents the reduction of the calculated gross of fee returns by the monthly portion of the annual investment advisory fee.

The "Blended" gross-of-fee return presented for this composite is a blend of "true" gross-of-fees returns for non-wrap and pooled funds clients (where the actual fee paid is identifiable) and "pure" gross-of-fees returns for wrap clients (for the reasons stated above). "Blended" gross-of-fee returns are supplemental to net returns.

This composite was created in October 2016 and replaces the previously used All Cap Core composite that didn't include pooled funds accounts.

Internal dispersion is calculated using the equal weighted standard deviation of annual gross returns of those portfolios that were included in the composite for the entire year. Total Firm Assets are presented from December 31, 2007 forward, consistent with the inception of our firm, and N/A is shown for prior periods. All investments are in U.S. equities and all returns are stated in U.S. Dollars. Policies for valuing investments, calculating performance, and preparing GIPS reports are available upon request.

The three-year annualized standard deviation measures the variability of the composite gross returns and the benchmark returns over the preceding 36-month period.

The Russell 3000® Index measures the performance of the largest 3000 U.S. companies representing approximately 98% of the investable U.S. equity market.

The S&P 500 Index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. Although the S&P 500 Index focuses on the large-cap segment of the market, with over 80% coverage of U.S. equities, it is generally considered a proxy for the total market.

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The dividend yield is the annual percentage of return earned by an investor on a common or preferred stock. The yield is calculated by dividing the amount of dividends paid per share over the past twelve months by the current market price per share of the stock. Holdings-based valuation metrics are derived from actual holdings utilizing OSAM Workbench, a proprietary analytics tool. The dividend yield is a gross indicated yield. There is no guarantee that the rate of dividend payment will continue and the income derived is subject to taxes and expenses which will impact the actual yield experience of each investor.

Due to ongoing research, the manager may from time to time adjust the model by changing certain factors or screens which comprise the model without prior notice. OSAM may determine it appropriate to rebalance at times other than the regularly scheduled rebalance without prior notice. Style allocations are approximate. They may change over time and vary by account.