

Board of Retirement Regular Meeting

Sacramento County Employees' Retirement System

Agenda Item 9

MEETING DATE: February 17, 2021

SUBJECT: Portfolio Allocation and Rebalancing Report - Fourth Quarter

2020

SUBMITTED FOR: X Consent Deliberation Receive and Action and File

RECOMMENDATION

Staff recommends that the Board receive and file the quarterly asset allocation and rebalancing report.

PURPOSE

This item complies with the SCERS Master Investment Policy Statement reporting requirements related to the review of SCERS' current asset allocation as it compares to established targets and ranges, and physical and Overlay Program rebalancing activity that occurred during the quarter.

SUMMARY

SCERS employs an Overlay Program, which is managed by State Street Global Advisors (SSGA), to rebalance the asset allocation to policy targets and also invests available cash, in a manner which replicates SCERS' policy target strategic asset allocation.

SCERS' Overlay Program reduces the need for physical rebalancing, but it does not eliminate it. While physical rebalancing typically costs more to execute compared to the Overlay Program, it remains important to assess whether SCERS' portfolio is at a point where physical rebalancing warrants greater consideration.

Below is a summary of SCERS' asset category and asset class positioning relative to the target allocations as of December 31, 2020 (based on State Street market values, which can differ from those of SCERS' investment consultants). The comparisons to the benchmark allocations below, and throughout the memo, are made in two formats: (1) the difference between the actual allocation, and (2) the percentage amount of the actual allocation relative to the target allocation.

		<u>Current</u>	<u>Target</u>		% Relative
Asset Category	Asset Class	<u>Allocation</u>	<u>Allocation</u>	<u>Difference</u>	to Target
GROWTH*		58.0%	58.0%	0.0%	100%
	Domestic Equity	22.9%	20.0%	2.9%	114%
	International Equity	20.0%	20.0%	0.0%	100%
	Private Equity	9.3%	9.0%	0.3%	103%
	Public Credit	1.7%	2.0%	-0.3%	86%
	Private Credit	1.8%	4.0%	-2.2%	46%
	Growth Absolute Return	2.2%	3.0%	-0.8%	74%
DIVERSIFYING*		22.2%	25.0%	-2.8%	89%
	Public Fixed Income	15.8%	18.0%	-2.2%	88%
	Diversifying Absolute Return	6.4%	7.0%	-0.6%	91%
REAL RETURN**		15.5%	16.0%	-0.5%	97%
	Real Estate	7.3%	7.0%	0.3%	104%
	Real Assets	4.9%	7.0%	-2.1%	70%
	Liquid Real Return	3.3%	2.0%	1.3%	166%
OPPORTUNITIES		0.0%	0.0%	0.0%	N/A
DEDICATED CASI	4	0.8%	1.0%	-0.2%	84%
OTHER CASH/OV	ERLAY	3.4%	0.0%	3.4%	N/A

^{*} Growth and Diversifying allocation weights do not include overlay proxy exposures, which are included in the Overlay allocation

During the fourth quarter of 2020, the following <u>Overlay Program rebalancing</u> occurred:

- Quarter-end rebalance:
 - Sold \$281 million in Growth proxy.
 - Purchased \$105 million in Diversifying proxy.
 - Purchased \$87 million in Real Return proxy.
 - o Purchased/increased cash allocation by \$90 million.
 - Market movements in the fourth quarter were significant, with equities meaningfully outperforming fixed income, which accounts for the larger than typical Overlay rebalance activity at the end of the fourth quarter.

Key current portfolio segment allocations relative to targets, activity, and physical rebalancing considerations include:

- **Domestic Equity** has a 22.9% allocation as of December 31, 2020, up significantly from a 21.5% allocation as of September 30, 2020. The 22.9% allocation is above the 20% target allocation, and is above the top of the range of 22%.
 - The robust recovery in equity markets through the end of the year brought the portfolio back above the high end of the range, despite reducing the Domestic Equity exposure at the end of August.
 - Staff is putting together a rebalance plan that is anticipated to be implemented in the first quarter of 2021.

^{**} Real Return allocation includes overlay proxy exposures

- International Equity has a 20.0% allocation as of December 31, 2020, up from an 18.6% allocation as of September 30, 2020. The 20.0% allocation is in-line with the 20% target allocation.
 - While the International Equity allocation is in-line with the target, the asset class is overweight growth and underweight value exposure, so Staff is constructing a rebalance plan to reduce a portion of this imbalance.
- **Public Fixed Income** has a 15.8% allocation as of December 31, 2020, down from a 16.7% allocation as of September 30, 2020. The 15.8% allocation is significantly below the 18% target allocation, but within the range.
 - o Staff is evaluating rebalance options to bring the allocation closer to target.
- Alternative Assets the following activity occurred within SCERS' alternative assets asset classes during the quarter:
 - Absolute Return
 - Full redemption of ~\$32 million from Winton Diversified Futures Fund, LP
 - \$45 million investment to Aristeia Partners, LP
 - Private Equity
 - \$20 million commitment to Khosla Ventures VII, LP
 - \$20 million commitment to Canvas Ventures 3, LP
 - Private Credit
 - None
 - Real Assets
 - \$50 million commitment to ISQ Global Infrastructure Fund III, LP
 - o Real Estate
 - None

BACKGROUND

The Overlay Program rebalances the asset allocation to policy targets and minimize the risk that SCERS falls short of achieving its targeted return due to the asset allocation straying from policy target ranges. The Overlay Program also invests available cash, including: (1) unallocated cash; (2) the cash balances in manager portfolios; and (3) cash held for previously committed to, but un-invested private market investments, in a manner which replicates SCERS' policy target strategic asset allocation. The Overlay Program does not invest the 1% dedicated cash allocation.

While SCERS' Overlay Program reduces the need for physical rebalancing, it does not eliminate it, as there are circumstances whereby physical rebalancing would be a better solution compared to the Overlay Program, including: (1) when there is low correlation between the overlay proxies designed to replicate the underlying asset classes and managers, as is the case with many alternative assets; and (2) when there is a persistently large difference between physical assets and the target allocation.

While physical rebalancing typically costs more to execute compared to the Overlay Program, it remains important to assess whether SCERS' portfolio is at a point where physical rebalancing warrants greater consideration.

The Overlay Program structure replicates SCERS' asset category targets (Growth; Diversifying; Real Return), with bands around these targets (see below). The rebalancing methodology that SSGA utilizes is quarterly rebalancing with bands, where rebalancing occurs on a quarterly basis, unless the bands are breached on an intra-quarter basis, in which case rebalancing occurs upon the breach of a band.

Asset Category	Minimum Allocation (%)	Target Allocation (%)	Maximum Allocation (%)
Growth	53	58	63
Diversifying	22	25	28
Real Return	14	16	18
Cash	0	1	2

Each asset category has a separate overlay proxy, which contains a mixture of investments that attempt to replicate the objectives and exposures of the asset category and the underlying asset classes within the asset category, in order to minimize tracking error and costs.

There remain some larger gaps between target and actual allocations within some private market assets classes. Private market asset class implementation (Private Credit; Real Assets) continues to make progress, but takes multiple years to execute given the unique capital pacing budgets for these segments of the portfolio. Private Equity is more mature, and in-line with its 9% target allocation.

The underlying components of each asset category overlay proxy are shown at the end of this report.

DISCUSSION

Because SCERS' Overlay Program rebalances SCERS' total fund, it is important to note that **Tables 1-16** in Appendix A refer only to physical holdings compared to policy targets, and not the exposures provided through the Overlay Program. The exception is Table 11 (Real Return asset category exposure), which includes the SSGA Real Return Strategy within the Liquid Real Return asset class, which is the Overlay proxy for this asset category, and is implemented through physical exposures.

As noted, SCERS rebalances the fund via both the Overlay Program and physically purchasing or selling assets. The Overlay Program is particularly effective in rebalancing public market assets due to the low tracking error of the underlying proxies compared to public market managers and the higher expenses of purchasing and liquidating interests held by investment managers. On the other hand, the Overlay Program is not as effective in tracking alternative assets because it is limited to the use of public market proxies. Public market proxies will not, for example, be able to replicate the 'illiquidity premium' or higher returns achieved historically by private equity and private real assets, or the 'absolute' return characteristics of SCERS' Absolute Return portfolio, including its the ability to outperform equity markets in times of distress. Accordingly, it is beneficial for SCERS to continue physically investing in alternative assets to achieve its asset allocation targets rather than heavily relying on the Overlay Program to rebalance these assets to the target allocations.

SCERS' investment staff and general investment consultant, Verus Advisory, monitor the asset allocation on a quarterly basis and update the Board if the asset allocation moves outside of policy ranges and conditions warrant physical rebalancing.

GROWTH ASSET CATEGORY

The Growth asset category is comprised of the Domestic Equity, International Equity, Private Equity, Public Credit, Private Credit, and Growth Absolute Return segments of the portfolio. As outlined in **Table 1**, the Growth asset category currently has an allocation of 58%, which is inline with the strategic asset allocation's target of 58%, and therefore the allocation is 100% relative to the target allocation. At a more granular level, the public equity exposure is above target while the alternative asset class exposures are below target, so the two offset each other.

The Overlay Program rebalances the Growth asset category to the 58% target allocation by purchasing or selling global equity futures to bring the Domestic Equity and International Equity asset classes to their target allocations, and then adjusts the remainder of the asset category by using a combination of 85% global equity futures and 15% U.S. Treasury futures.

At the end of the quarter, SCERS' overlay manager, SSGA, sold approximately \$281 million of total overlay proxy exposure (mostly public equities) to rebalance the Growth asset category to its target allocation.

Domestic Equities:

As outlined in **Table 2**, SCERS' Domestic Equity asset class actual weighting of 22.9% is well above SCERS' policy target allocation of 20%, and the allocation is 114% relative to the target allocation and is above the top of the range of 22%.

The robust recovery in equity markets through the end of the year brought the portfolio back above the high end of the range, despite reducing the Domestic Equity exposure at the end of August. Staff is putting together a rebalance plan that is anticipated to be implemented in the first quarter of 2021. The rebalance will occur across large cap active and passive mandates, and will seek to reduce the overall exposure to Domestic Equity, but also bring individual manager exposures closer to their targets. Within small cap, SCERS' hired a new small cap value manager late in the fourth quarter and the transition of assets within small cap occurred in January.

SSGA buys and sells a basket of U.S. equity index futures to rebalance the Domestic Equity asset class to the policy target allocation, when physical rebalancing is not required.

At the sub-asset class level, U.S. large cap, at a 20.5% allocation is above the target allocation of 18%. U.S. small cap, at a 2.4% allocation is also above the target allocation of 2%.

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International Equities:

As outlined in **Table 3**, SCERS' International Equity asset class actual weighting of 20% is inline with SCERS' policy target allocation of 20%, and therefore the allocation is 100% relative to the target allocation.

While the International Equity allocation is in-line with the target, the asset class is overweight growth and underweight value exposure, so Staff is constructing a rebalance plan to reduce a portion of this imbalance through individual manager rebalancing.

SSGA buys and sells a basket of international equity index futures to rebalance the International Equity asset class to the policy target allocation, when physical rebalancing is not required.

At the sub-asset class level, international large cap, at a 13.7% allocation is slightly below the target allocation of 14%. International small cap, at a 2.1% allocation is slightly above the target allocation of 2%. Emerging markets equity, at a 4.3% allocation is above the policy target allocation of 4%.

Private Equity:

As outlined in **Table 4**, SCERS' Private Equity allocation of 9.3% is slightly above the policy target allocation of 9%, and the allocation is 103% relative to the target allocation. Private market valuations are lagged a quarter.

SSGA utilizes a basket of 85% global equities and 15% U.S. Treasuries to replicate Private Equity, as part of a broader non-public equity proxy within the Growth asset category.

Please note that there is an investment within the Opportunities portfolio (Atalaya Special Opportunities Fund V, LP) which draws capital from the Private Equity asset class, as this is the asset class with the closest risk and return profile of the opportunity being invested in by this fund. The market value of this investment is \$5.2 million, less than 0.1% of the total portfolio.

Public Credit:

As outlined in **Table 5**, SCERS' Public Credit allocation of 1.7% is below the policy target allocation of 2%, and the allocation is 86% relative to the target allocation. SSGA utilizes a basket of 85% global equities and 15% U.S. Treasuries to replicate Public Credit, as part of a broader non-public equity proxy within the Growth asset category.

Private Credit:

As outlined in **Table 6**, SCERS' Private Credit allocation of 1.8% is below the policy target allocation of 4%, and the allocation is 46% relative to the target allocation. Private credit valuations are lagged a quarter.

SSGA utilizes a basket of 85% global equities and 15% U.S. Treasuries to replicate Private Credit, as part of a broader non-public equity proxy within the Growth asset category. The commitment schedule and cash flow forecast of Private Credit investments projects SCERS achieving and maintaining the policy target in 2023.

Growth Absolute Return:

As outlined in **Table 7**, SCERS' Growth Absolute Return allocation of 2.2% is below the policy target allocation of 3%, and the allocation is 74% relative to the target allocation. SSGA utilizes a basket of 85% global equities and 15% U.S. Treasuries to replicate Growth Absolute Return, as part of a broader non-public equity proxy within the Growth asset category.

DIVERSIFYING ASSET CATEGORY

The Diversifying asset category is comprised of the Public Fixed Income and Diversifying Absolute Return segments of the portfolio. As outlined in **Table 8**, the Diversifying asset category currently has an allocation of 22.2%, which is below the strategic asset allocation's target of 25%, and the allocation is 89% relative to the target allocation.

The Overlay Program rebalances the Diversifying asset category to the 25% target allocation by purchasing or selling U.S. government bond futures.

At the end of the quarter, SCERS' overlay manager, SSGA, purchased approximately \$105 million of total overlay proxy exposure to rebalance the Diversifying asset category to its target allocation.

Public Fixed Income:

As outlined in **Table 9**, SCERS' Public Fixed Income allocation of 15.8% is below SCERS' policy target allocation of 18%, and the allocation is 88% relative to the target allocation.

The Overlay Program utilizes a combination of U.S. Treasury futures and Mortgage TBAs to rebalance this segment of the portfolio to its policy target allocation, as part of a broader Diversifying asset category proxy. Staff is evaluating rebalance options to bring the allocation closer to target.

Diversifying Absolute Return:

As outlined in **Table 10**, SCERS' Diversifying Absolute Return allocation of 6.4% is slightly below the policy target allocation of 7%, and the allocation is 91% relative to the target allocation.

SSGA utilizes a combination of U.S. Treasury futures and Mortgage TBAs to rebalance this segment of the portfolio to its policy target allocation, as part of a broader Diversifying asset category proxy.

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REAL RETURN ASSET CATEGORY

The Real Return asset category is comprised of the Real Estate, Real Assets, and Liquid Real Return segments of the portfolio. As outlined below in **Table 11**, the Real Return asset category currently has an allocation of 15.5%, which is slightly below the strategic asset allocation's target of 16%, and the allocation is 97% relative to the target allocation.

The Overlay Program rebalances the Real Return asset category to the 16% target allocation, through the SSGA real return overlay proxy, by purchasing or selling a series of commingled funds across global REITs, global infrastructure stocks, global natural resource stocks, commodities, U.S. TIPS, and floating rate notes.

At the end of the quarter, SCERS' overlay manager, SSGA, purchased approximately \$87 million of total overlay proxy exposure to rebalance the Real Return asset category to its target allocation.

Real Estate:

As outlined in **Table 12**, SCERS' Real Estate allocation of 7.3% is above the policy target allocation of 7%, and the allocation is 104% relative to the target allocation. Non-core real estate valuations are lagged a quarter.

SSGA utilizes a series of listed commingled funds described above to replicate Real Estate, as part of the broader Real Return asset category proxy.

Real Assets:

As outlined in **Table 13**, SCERS' Real Assets allocation of 4.9% is below the policy target allocation of 7%, and the allocation is 70% relative to the target allocation. Private real asset valuations are lagged a quarter.

SSGA utilizes a series of listed commingled funds described above to replicate Real Assets, as part of the broader Real Return asset category proxy. The commitment schedule and cash flow forecast of Real Assets investments project SCERS achieving and maintaining the policy target in 2025.

Liquid Real Return:

As outlined in **Table 14**, SCERS' Liquid Real Return allocation of 3.3% is above the policy target allocation of 2%, and the allocation is 166% relative to the target allocation. The Liquid Real Return allocation is split between a strategic active mandate managed by Brookfield Asset Management and the SSGA Real Return Overlay proxy. The latter is used to adjust broad Real Return asset category exposures during quarterly overlay rebalancing.

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OPPORTUNITIES PORTFOLIO

The allocation for SCERS' Opportunities portfolio, outlined in **Table 15**, is slightly above 0% (minimal \$5.2 million allocation to one fund) compared to the 0% target allocation, and within the policy range of 0% to 5%. Any investments made within the Opportunities portfolio draw capital from the asset class with the closest risk and return profile as the opportunity being invested in. Since the target allocation for Opportunities is 0%, the Overlay Program does not utilize a proxy allocation for the Opportunities portfolio, as it does for the other asset categories.

CASH

As outlined in **Tables 16 and 17**, SCERS' total cash balance is approximately 3.2% (as of December 31, 2020), which includes a combination of the 0.8% dedicated cash allocation and 2.4% in other cash. The dedicated cash allocation of 0.8% is 84% relative to the 1% target allocation.

The dedicated cash allocation is intended to close the gap between benefit payments and total contributions in an environment where investment earnings fall short of the targeted assumed rate of return, and also serves as an emergency source of cash during a market dislocation.

The 2.4% other cash allocation is comprised mostly of the pre-funded annual employer contribution from fiscal year 2020-21, and is therefore used to fund monthly benefit payments. It is also used to fund future drawdowns within the private markets segments of the portfolio. SCERS' Overlay Program rebalances the portfolio by eliminating cash drag by investing the non-dedicated cash allocation (2.4%) into positions that replicate SCERS' target portfolio.

ATTACHMENTS

- Appendix A: Quarterly Portfolio Allocation and Rebalancing Detail
- Appendix B: SCERS Overlay Proxies

Prepared by:	Reviewed by:
/S/	/S/
Steve Davis	Eric Stern
Chief Investment Officer	Chief Executive Officer

Fund Name Market Value Actual Target Delta to Target Total Fund \$11,430,091,935 ***
Table 1: Growth Asset Category Allowable Range: 53-63% **Relative** Market Value Actual Target Delta to Target*
% Relative Market Value Actual Target Delta to Target
% Relative Market Value Actual Target Delta to Target
Market Value Actual Target Delta to Target
GROWTH ASSET CATEGORY: \$6 632 996 028 58 0% 58 0% 0 0% 100%
\$45,000,000,000,000,000,000,000,000,000,0
Table 2: Domestic Equity Asset Class Allowable Range: 18-22%
% Relative
Domestic Equity Sub-Asset Class Market Value Actual Target Delta to Target
\$2,615,708,692 22.9% 20.0% 2.9% 114%
AllianceBernstein Equity Core Index \$1,347,716,086 11.8% 10.8% 1.0%
JP Morgan 130/30 Equity Core Active Short Extension (130/30) \$187,040,620 1.6% 1.2% 0.4%
DE Shaw Broad Market Core Alpha Extension Equity Core Active Short Extension (130/30) \$157,919,214 1.4% 1.2% 0.2%
Eagle Capital Management Equity Large Cap Core \$330,642,640 2.9% 2.4% 0.5%
AQR US Enhanced Equity Equity Systematic Multi-Factor Core \$317,203,023 2.8% 2.4% 0.4%
Equity Large Cap 20.5% 18.0% 2.5%
iShares Russell 2000 Value ETF - Transition Account Equity Small Cap Value \$100,076,607 0.9% 1.0% -0.1%
M.A. Weatherbie & Co. Equity Small Cap Growth \$175,110,501 1.5% 1.0% 0.5%
Equity Small Cap 2.4% 2.0% 0.4%
Table 3: International Equity Asset Class Allowable Range: 18-22%
% Relative International Equity Sub-Asset Class Market Value Actual Target Delta to Target
International Equity Sub-Asset Class Market Value Actual Target Delta to Target \$2,291,701,162 20.0% 20.0% 0.0% 100%
Lazard Asset Management ACWI Ex-US \$448,226,800 3.9% 4.0% -0.1%
LSV Large Cap International Value International Equity Large Cap Value \$435,334,803 3.8% 5.0% -1.2%
Walter Scott International Equity Large Cap Growth \$677,478,682 5.9% 5.0% 0.9%
International Equity Large Cap 13.7% 14.0% -0.3%
William Blair & Co. International Equity Small Cap Growth \$124,401,887 1.1% 1.0% 0.1%
Mondrian Investment Partners International Equity Small Cap Value \$115,856,064 1.0% 1.0% 0.0%
International Equity Small Cap 2.1% 2.0% 0.1%
Baillie Gifford Emerging Markets Equity - All Cap \$277,851,770 2.4% 2.0% 0.4%
Mondrian Emerging Markets Equity Fund, LP Emerging Markets Equity - All Cap \$212,551,157 1.9% 2.0% -0.1%
Emerging Markets 4.3% 4.0% 0.3%

RCP Multi-Fund Feeder (SCERS), L.P.

Allowable Range: 7-11%

Table 4: Private Equity Asset Class	Table 4: Private Equity Asset Class Allowable Range: 7-11%						
Private Equity	Sub-Asset Class	Market Value \$1,063,299,684	Actual 9.3%	Target 9.0%	Delta 0.3%	% Relative to Target 103%	
Accel-KKR Capital Partners IV, LP	Buyout	\$12,175,207	0.1%	0.070	0.070	100 /0	
Accel-KKR Capital Partners V, LP	Buyout	\$18,067,410	0.2%				
Accel-KKR Capital Partners VI, LP	Buyout	\$0	0.0%				
Accel-KKR Growth Capital Partners II, LP	Buyout	\$10,052,965	0.1%				
Accel-KKR Growth Capital Partners III, LP	Buyout	\$9,944,206	0.1%				
Cortec Group Fund VII, LP	Buyout	\$9,253,761	0.0%				
Gridiron Capital Fund IV, LP	Buyout	\$14,842,280	0.1%				
H.I.G. Capital Partners V, LP	Buyout	\$14,421,562	0.1%				
Linden Capital Partners III, LP	Buyout	\$24,946,491	0.2%				
Linden Capital Partners IV, LP	Buyout	\$21,714,132	0.2%				
Marlin Equity Partners IV, LP	Buyout	\$15,051,438	0.1%				
Marlin Equity Partners V, LP	Buyout	\$13,930,089	0.1%				
Marlin Heritage Europe, LP	Buyout	\$20,131,919	0.2%				
Marlin Heritage II, LP	Buyout	\$9,139,900	0.1%				
Marlin Heritage, LP	Buyout	\$8,040,935	0.1%				
Thoma Bravo Fund XI, LP	Buyout	\$45,583,644	0.4%				
Thoma Bravo Fund XII, LP	Buyout	\$36,773,443	0.3%				
Thoma Bravo Fund XIII, LP	Buyout	\$30,081,263	0.3%				
TSG7 A, LP	Buyout	\$14,771,157	0.1%				
TSG7 B, LP	Buyout	\$2,807,568	0.0%				
TSG8, L.P.	Buyout	\$5,986,279	0.1%				
Wynnchurch Capital Partners V, LP	Buyout	\$2,453,119	0.0%				
H.I.G. Europe Capital Partners II, LP	European Buyout	\$11,509,332	0.1%				
Waterland Private Equity Fund V, CV	European Buyout	\$12,321,025	0.1%				
Waterland Private Equity Fund VI, CV	European Buyout	\$28,147,766	0.2%				
RRJ Capital Master Fund II, LP	Asian Buyout/Special Situations	\$9,538,939	0.1%				
RRJ Capital Master Fund III, LP	Asian Buyout/Special Situations	\$10,632,213	0.1%				
Shamrock Capital Content Fund II, L.P.	Growth Equity	\$1,558,864	0.0%				
Spectrum Equity Investors VII, LP	Growth Equity	\$29,508,972	0.3%				
Spectrum Equity Fund VIII, LP	Growth Equity	\$20,879,528	0.2%				
Spectrum Equity Fund IX, L.P.	Growth Equity	\$1,500,000	0.0%				
Summit Partners VC Fund III, LP	Growth Equity	\$2,668,199	0.0%				
Summit Partners Venture Capital Fund IV, LP	Growth Equity	\$27,870,598	0.2%				
Summit Partners Venture Capital V, L.P.	Growth Equity	\$0	0.0%				
Summit Partners Europe Growth Equity Fund II, LP	European Growth Equity	\$26,882,309	0.2%				
Summit Partners Europe Growth Equity Fund III, L.P.	European Growth Equity	\$0	0.0%				
Canvas 3, L.P.	Venture Capital	\$949,398	0.0%				
CRV XVIII, L.P.	Venture Capital	\$0	0.0%				
Khosla Ventures IV, LP	Venture Capital	\$13,789,502	0.1%				
Khosla Ventures V, L.P.	Venture Capital	\$25,823,061	0.2%				
Khosla Ventures VI, L.P.	Venture Capital	\$23,200,174	0.2%				
Khosla Ventures VII, L.P.	Venture Capital	\$0	0.0%				
New Enterprise Associates 14, LP	Venture Capital	\$28,864,277	0.3%				
New Enterprise Associates 15, LP	Venture Capital	\$54,214,572	0.5%				
New Enterprise Associates 16, LP	Venture Capital	\$35,102,221	0.3%				
New Enterprise Associates 17, LP	Venture Capital	\$9,642,351	0.1%				
OrbiMed Private Investments VIII, L.P.	Venture Capital	\$750,000	0.0%				
Threshold Ventures III, LP	Venture Capital	\$6,386,947	0.1%				
Trinity Ventures XI, LP	Venture Capital	\$33,660,774	0.3%				
Trinity Ventures XII, LP	Venture Capital	\$43,287,800	0.4%				
Atalaya Special Opportunities Fund VI, LP	Distressed Debt	\$10,888,712	0.1%				
Davidson Kempner Distressed Opportunities Fund III, LP	Distressed Debt	\$32,595,625	0.3%				
Davidson Kempner Distressed Opportunities Fund IV, LP	Distressed Debt	\$4,814,238	0.0%				
Garrison Opportunity Fund III, LP	Distressed Debt	\$10,233,877	0.1%				
H.I.G. Bayside Loan Opportunity III (Europe), LP	Distressed Debt	\$6,471,096	0.1%				
TPG Opportunities Partners III, LP	Distressed Debt	\$14,738,288	0.1%				
TSSP Opportunities Partners IV, LP	Distressed Debt	\$12,422,097	0.1%				
Wayzata Opportunities Fund III, LP	Distressed Debt	\$5,129,228	0.0%				
Dyal Capital Partners II, LP	Other	\$21,004,925	0.2%				
Dyal Capital Partners III, LP	Other	\$19,596,029	0.2%				
Abbott Capital ACE VI	Fund of Funds	\$33,932,271	0.3%				
Goldman Sachs PEP X	Fund of Funds	\$21,459,049	0.2%				
Harbourvest Partners Intl VI	Fund of Funds	\$32,750,241	0.3%				
HarbourVest Partners VIII	Fund of Funds	\$8,721,234	0.1%				
DOD MAR Front Food on (OOFDO) I D	E I . C E I .	#00 005 407	0.00/				

Fund of Funds

\$29,685,187

0.3%

Seption Sept							% Relativ
Public Credit	Public Credit	Sub-Asset Class					to Target
Table 6: Private Credit Asset Class						-0.3%	86%
Name	Brigade Capital SC Opportunities Mandate	Public Credit	\$196,649,479	1.7%	2.0%		
Sub-Asset Class	Table 6: Private Credit Asset Class		Allowable Range: 2-6	6%			
September Series Partners Senior Opportunities Fund, I.P.	Drivato Cradit	Sub Accet Class	Market Value	Actual	Target	Dolto	% Relative
Serreit Steet Parkinse Serrior Opportunities Fund I, IP Direct Lending \$40,997,086 0.4%	-Tivate Credit	Sub-Asset Class					
Barnell Stevel Parthers Senior Opportunities Fund II, LP Direct Lending \$3,800,176 0.1%	Reposit Street Partners Senior Opportunities Fund I D	Direct Lending			4.0 /0	- Z.Z /0	40 /0
FM U.S. Infrastructure Debt Purid, LP	·	•					
Summa Partners Credit Fund II, LP	· ·	•					
Summit Partners Credit Fund III, LP	•	9	·				
Direct Lending \$18,862,287 0.1% Value	· · · · · · · · · · · · · · · · · · ·	3	. ,				
Direct Lending Sp4,418,538 0,6% Warytim Copportunities Fund III, LP Healthcare Opportunities Credit \$18,802,639 0,2% Warytim Copportunities Fund III, LP Healthcare Opportunities Credit \$18,802,639 0,2% Warytim Copportunities Fund III, LP Healthcare Opportunities Credit \$3,809,4473 0,0% Warytim Copportunities Fund III, LP Healthcare Opportunities Credit \$3,009,444 0,0% Warytim Copportunities Copportunities Credit \$3,009,444 0,0% Warytim Copportunities Copportunities Credit \$3,009,444 0,0% Warytim Copportunities Copportunitie	- ,	9	. , ,				
Name Path Path Coper Path	,	9					
		9					
District Royalty and Credit Coportunities Fund III, LP Healthcare Opportunistic Credit \$2,309,444 0.0%	· · · · · · · · · · · · · · · · · · ·	• •					
MCP Private Capital Fund II, LP Opportunistic Credit \$2,399,444 0.0%	• • • • • • • • • • • • • • • • • • • •		\$18,892,639				
Silber Point Specialty Credit Fund II, L.P. Opportunistic Credit \$10,393,566 0.1%		Healthcare Opportunistic Credit	\$8,964,473	0.1%			
Allowable Range: 1-5%	√ICP Private Capital Fund IV, SCSp	Opportunistic Credit	\$2,309,444	0.0%			
Sub-Asset Class	Silver Point Specialty Credit Fund II, L.P.	Opportunistic Credit	\$10,393,566	0.1%			
Sub-Asset Class							
System	able 7: Growth Absolute Return Asset Class		Allowable Range: 1-5	0%			% Relativ
Diversified Separate Account \$88,994,689 0.3% Lakewood Capital Partners, LP Equity Long/Short \$44,773 0.4% Feeting Partners (LP Equity Long/Short \$45,000 0.5% Feeting Partners (LP Equity Long/Short \$45,000 0.5% Feeting Partners (LP Equity Long/Short \$58,878,000 0.5% Feeting Partners (LP Equity Long/Short \$58,878,000 0.5% Feeting Partners (LP Equity Long/Short \$58,878,000 0.5% Feeting Partners (LP Equity Long/Short \$50,000 0.5% 50,	Growth Absolute Return	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
Diversified Separate Account \$88,994,889 0.3%						-0.8%	
Lakewood Capital Partners, LP	Grosvenor SCARF - Growth Series	Diversified Separate Account					
Event Driven \$88,878,000 0.5% \$81,562,100 0.5% 0.5% \$81,562,100 0.5%		·					
Allowable Range: 22-28% Septending Sep	• •	. , ,					
Market Value	,						
Market Value	Table 8: Diversifying Asset Category		Allowable Pange: 22.2	90/			
Sub-Asset Class	Table 6. Diversifying Asset Category		Allowable Natige. 22-2	.0 /0			% Relativ
Allowable Range: 13-23% Fixed Income Sub-Asset Class Market Value Actual Target Delta to Target Target Delta to Target Target Target Delta to Target Target Target Delta to Target Target Target Target Delta to Target Target Delta to Target Target Target Delta to Target Target Target Target Delta to Target Target Target Delta to Target							to Target
Public Fixed Income Sub-Asset Class Market Value Si,805,780,355 15.8% 18.0% 2.2% 88%	DIVERSIFYING ASSET CATEGORY:		\$2,533,704,153	22.2%	25.0%	-2.8%	89%
Sub-Asset Class	Table 9: Public Fixed Income Asset Class		Allowable Range: 13-2	3%			
St.							
Core Plus Active Fixed Income \$528,964,273 4.6% 5.0% Core Plus Active Fixed Income \$489,753,674 4.3% 5.0% Core Plus S489,753,674 4.3% 5.0% Core Plus S489,753,674 4.3% 5.0% S.0% Core Plus S489,753,674 4.3% 5.0% S.0%	Public Fixed Income	Sub-Asset Class	Market Value	Actual	Target	Delta	
Core Plus Active Fixed Income \$489,753,674 4.3% 5.0%	Public Fixed Income	Sub-Asset Class					to Targe
Core Plus 8.9% 10.0% Neuberger Berman US Treasuries \$497,592,352 4.4% 5.0% Global Opportunistic Fixed Income \$289,470,056 2.5% 3.0% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Fable 10: Diversifying Absolute Return Asset Class Market Value Actual Target Delta to Targe Seros, 272, 323, 798 6.4% 7.0% -0.6% 91% Forosvenor SCARF - Diversifying Series Diversified Separate Account \$207,346,473 1.8% Grosvenor SCARF Series B - Interim Diversifying Diversified Separate Account \$2,047,236 0.0% Market Value \$2,047,236 0.0% Market Neuto Driven \$47,837,156 0.4% Belation Associates LP Davidson Kempner Institutional Partners, LP Event Driven \$49,198,225 0.4% Paguared Event Opportunity Fund, L.P. Event Driven \$46,011,960 0.4% Alternative Paplication \$1,721,895 0.0% Market Neutral, Multi-Strategy \$42,187,680 0.4% Actual Target Delta to Target No.8% Relation Target No.8% N			\$1,805,780,355	15.8%	18.0%		to Targe
Global Opportunistic Fixed Income \$289,470,056 2.5% 3.0% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Sub-Asset Class Market Value Actual Target Delta to Target Target Delta to Target Target Delta to Target Delta	Prudential Investment Management	Core Plus Active Fixed Income	\$1,805,780,355 \$528,964,273	15.8% 4.6%	18.0% 5.0%		to Targe
Global Opportunistic Fixed Income \$289,470,056 2.5% 3.0% Fable 10: Diversifying Absolute Return Asset Class Allowable Range: 5-9% Sub-Asset Class Market Value Actual Target Delta to Target To	Prudential Investment Management	Core Plus Active Fixed Income Core Plus Active Fixed Income	\$1,805,780,355 \$528,964,273	15.8% 4.6% 4.3%	18.0% 5.0% 5.0%		to Targe
Allowable Range: 5-9% Sub-Asset Class Market Value Sub-Asset Class Market Value Sizer, 923,798 Sizer, 924,7236 Sizer, 92	Prudential Investment Management ICW	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus	\$1,805,780,355 \$528,964,273 \$489,753,674	4.6% 4.3% 8.9%	18.0% 5.0% 5.0% 10.0%		to Targe
Diversifying Absolute Return Sub-Asset Class Market Value \$727,923,798 6.4% 7.0% -0.6% 91% Grosvenor SCARF - Diversifying Series Grosvenor SCARF - Diversifying Series Diversified Separate Account \$207,346,473 1.8% Grosvenor SCARF Series B - Interim Diversifying Diversified Separate Account \$20,047,236 0.0% Marshall Wace Global Opportunities Fund Equity Long/Short Sto.,573,600 0.4% BlackRock Event Driven \$47,837,156 0.4% Elliott Associates LP Event Driven Seq.,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven Seq.,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven Sto.,011,960 0.4% CLS Diversified Fund, L.P. Fixed Income Arbitrage Sto.,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value S45,000,000 0.4% ACRD Delta Fund II, LP Bottom Up Replication Market Neutral, Multi-Strategy S42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage S62,282,307 0.5% Five Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352	15.8% 4.6% 4.3% 8.9% 4.4%	18.0% 5.0% 5.0% 10.0% 5.0%		to Targe
Diversifying Absolute Return Sub-Asset Class Market Value \$727,923,798 6.4% 7.0% -0.6% 91% Grosvenor SCARF - Diversifying Series Grosvenor SCARF - Diversifying Series Diversified Separate Account \$207,346,473 1.8% Grosvenor SCARF Series B - Interim Diversifying Diversified Separate Account \$20,047,236 0.0% Marshall Wace Global Opportunities Fund Equity Long/Short Sto.,573,600 0.4% BlackRock Event Driven \$47,837,156 0.4% Elliott Associates LP Event Driven Seq.,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven Seq.,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven Sto.,011,960 0.4% CLS Diversified Fund, L.P. Fixed Income Arbitrage Sto.,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value S45,000,000 0.4% ACRD Delta Fund II, LP Bottom Up Replication Market Neutral, Multi-Strategy S42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage S62,282,307 0.5% Five Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352	15.8% 4.6% 4.3% 8.9% 4.4%	18.0% 5.0% 5.0% 10.0% 5.0%		to Targe
Sub-Asset Class Market Value Actual Target Delta to Target Sub-Asset Class Sub	Prudential Investment Management ICW Neuberger Berman Brandywine Global	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056	15.8% 4.6% 4.3% 8.9% 4.4% 2.5%	18.0% 5.0% 5.0% 10.0% 5.0%		to Targe
Strate in Partners, L.P. Fixed Income Arbitrage Fixed Income Arbitrage Fixed Income Relative Value AQR Delta Fund Ltd Market Neutral, Multi-Strategy Laurion Capital Management, LP Worsigna Series Diversified Separate Account \$207,346,473 1.8% \$207,346,473 1.8% \$207,346,473 1.8% \$207,346,473 1.8% \$2047,236 0.0% \$2,047,236 0.0% \$2,047,236 0.4% \$47,837,156 0.4% \$47,837,156 0.4% \$47,837,156 0.4% \$49,198,225 0.6% \$49,198,225 0.4% \$49,198,225 0.4% \$45,000,000 0.4% \$45,000,000 0.4% \$47,000,000 0.4% \$48,000,000 0.4% \$49,198,225 0.4% \$40,134,285 0.5% \$40,134,285 0.5% \$40,134,285 0.5% \$40,134,285 0.4%	Prudential Investment Management TCW Neuberger Berman Brandywine Global	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056	15.8% 4.6% 4.3% 8.9% 4.4% 2.5%	18.0% 5.0% 5.0% 10.0% 5.0%		to Target 88%
Diversified Separate Account \$207,346,473 1.8% Grosvenor SCARF Series B - Interim Diversifying Diversified Separate Account \$2,047,236 0.0% Marshall Wace Global Opportunities Fund Equity Long/Short \$50,573,600 0.4% BlackRock Event Driven Equity Fund Event Driven \$47,837,156 0.4% Elliott Associates LP Event Driven \$62,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven \$49,198,225 0.4% PSquared Event Opportunity Fund, L.P. Event Driven \$46,011,960 0.4% ACLS Diversified Fund, L.P. Fixed Income Arbitrage \$36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value \$45,000,000 0.4% AQR Delta Fund II, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9	15.8% 4.6% 4.3% 8.9% 4.4% 2.5%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2%	to Target 88%
Diversified Separate Account \$2,047,236 0.0% Marshall Wace Global Opportunities Fund Equity Long/Short \$50,573,600 0.4% BlackRock Event Driven Equity Fund Event Driven \$47,837,156 0.4% Cliliott Associates LP Event Driven \$62,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven \$49,198,225 0.4% PSquared Event Opportunity Fund, L.P. Event Driven \$46,011,960 0.4% Actisteria Partners, L.P. Fixed Income Arbitrage \$36,487,080 0.3% Actisteria Partners, L.P. Fixed Income Relative Value \$45,000,000 0.4% ACR Delta Fund II, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9	15.8% 4.6% 4.3% 8.9% 4.4% 2.5%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88% % Relativ to Targe
Marshall Wace Global Opportunities Fund Equity Long/Short S50,573,600 0.4% BlackRock Event Driven Equity Fund Event Driven \$47,837,156 0.4% Elliott Associates LP Event Driven \$62,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven \$49,198,225 0.4% PSquared Event Opportunity Fund, L.P. Event Driven \$46,011,960 0.4% ALS Diversified Fund, L.P. Fixed Income Arbitrage \$36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value \$45,000,000 0.4% AQR Delta Fund III, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Five Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
BlackRock Event Driven Equity Fund Elliott Associates LP Event Driven Sec., 957,927 Davidson Kempner Institutional Partners, LP Event Driven Event Driven Sec., 957,927 Davidson Kempner Institutional Partners, LP Event Driven Sec., 957,927 Devict Driven Sec., 957,927 Devict Driven Sec., 949,198,225 Devict Driven Sec.,	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Elliott Associates LP Event Driven Se2,957,927 0.6% Davidson Kempner Institutional Partners, LP Event Driven S49,198,225 0.4% PSquared Event Opportunity Fund, L.P. Event Driven S46,011,960 0.4% KLS Diversified Fund, L.P. Fixed Income Arbitrage S36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value S45,000,000 0.4% AQR Delta Fund II, LP Bottom Up Replication S1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy S42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage S62,282,307 0.5% Fixed Income Relative Relative Value S45,000,000 0.4% S42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage S62,282,307 0.5% Fixed Income Relative Risk Premia S40,0134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8% 0.0%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Davidson Kempner Institutional Partners, LP Event Driven S49, 198, 225 0.4% PSquared Event Opportunity Fund, L.P. Event Driven S46,011,960 0.4% CLS Diversified Fund, L.P. Fixed Income Arbitrage S36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value S45,000,000 0.4% AQR Delta Fund II, LP Bottom Up Replication S1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy S42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage S62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia S49,198,225 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Brosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8% 0.0% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Event Driven \$46,011,960 0.4% KLS Diversified Fund, L.P. Fixed Income Arbitrage \$36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value \$45,000,000 0.4% AQR Delta Fund II, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Brosvenor SCARF - Diversifying Series Brosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
KLS Diversified Fund, L.P. Fixed Income Arbitrage \$36,487,080 0.3% Aristeia Partners, L.P. Fixed Income Relative Value \$45,000,000 0.4% AQR Delta Fund II, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.4% 0.6%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Aristeia Partners, L.P. AQR Delta Fund II, LP Bottom Up Replication Market Neutral, Multi-Strategy Augurion Capital Management, LP Volatility Arbitrage	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.6% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Aristeia Partners, L.P. AQR Delta Fund II, LP Bottom Up Replication Market Neutral, Multi-Strategy Augrent Management, LP Volatility Arbitrage Worksigna Risk Premia Enhanced Fund, LP Fixed Income Relative Value \$45,000,000 0.4% \$1,721,895 0.0% \$42,187,680 0.4% \$62,282,307 0.5% \$60,000 0.4% 0.4% 0.4% 0.4% 0.5%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.6% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
AQR Delta Fund II, LP Bottom Up Replication \$1,721,895 0.0% LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P.	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Event Driven Event Driven	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$20,47,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.4% 0.4% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
LMR Fund Ltd Market Neutral, Multi-Strategy \$42,187,680 0.4% Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P. KLS Diversified Fund, L.P.	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Event Driven Fixed Income Arbitrage	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960 \$36,487,080	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.0% 0.4% 0.4% 0.6% 0.4% 0.4% 0.3%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Laurion Capital Management, LP Volatility Arbitrage \$62,282,307 0.5% Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P. Aristeia Partners, L.P. Aristeia Partners, L.P.	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Fixed Income Arbitrage Fixed Income Relative Value	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960 \$36,487,080 \$45,000,000	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8% 0.0% 0.4% 0.4% 0.4% 0.3% 0.4%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
Two Sigma Risk Premia Enhanced Fund, LP Alternative Risk Premia \$40,134,285 0.4%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Fable 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Brosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P. KLS Diversified Fund, L.P. Aristeia Partners, L.P. AQR Delta Fund II, LP	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Fixed Income Arbitrage Fixed Income Relative Value Bottom Up Replication	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960 \$36,487,080 \$45,000,000 \$1,721,895	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8% 0.0% 0.4% 0.6% 0.4% 0.3% 0.4% 0.0%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88%
	Prudential Investment Management ICW Neuberger Berman Brandywine Global Table 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P. KLS Diversified Fund, L.P. Aristeia Partners, L.P. AQR Delta Fund II, LP LMR Fund Ltd	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Fixed Income Arbitrage Fixed Income Relative Value Bottom Up Replication Market Neutral, Multi-Strategy	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960 \$36,487,080 \$45,000,000 \$1,721,895 \$42,187,680	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 1.8% 0.0% 0.4% 0.6% 0.4% 0.4% 0.3% 0.4% 0.0% 0.4% 0.0%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88% % Relativ to Targe
Graham Tactical Trend Fund , L.P. Systematic Global Macro \$34,137,973 0.3%	Prudential Investment Management ICW Neuberger Berman Brandywine Global Table 10: Diversifying Absolute Return Asset Class Diversifying Absolute Return Grosvenor SCARF - Diversifying Series Grosvenor SCARF Series B - Interim Diversifying Marshall Wace Global Opportunities Fund BlackRock Event Driven Equity Fund Elliott Associates LP Davidson Kempner Institutional Partners, LP PSquared Event Opportunity Fund, L.P. KLS Diversified Fund, L.P. Aristeia Partners, L.P. AQR Delta Fund II, LP LMR Fund Ltd Laurion Capital Management, LP	Core Plus Active Fixed Income Core Plus Active Fixed Income Core Plus US Treasuries Global Opportunistic Fixed Income Sub-Asset Class Diversified Separate Account Diversified Separate Account Equity Long/Short Event Driven Event Driven Event Driven Event Driven Fixed Income Arbitrage Fixed Income Relative Value Bottom Up Replication Market Neutral, Multi-Strategy Volatility Arbitrage	\$1,805,780,355 \$528,964,273 \$489,753,674 \$497,592,352 \$289,470,056 Allowable Range: 5-9 Market Value \$727,923,798 \$207,346,473 \$2,047,236 \$50,573,600 \$47,837,156 \$62,957,927 \$49,198,225 \$46,011,960 \$36,487,080 \$45,000,000 \$1,721,895 \$42,187,680 \$62,282,307	15.8% 4.6% 4.3% 8.9% 4.4% 2.5% Actual 6.4% 0.6% 0.4% 0.6% 0.4% 0.3% 0.4% 0.0% 0.4% 0.5%	18.0% 5.0% 5.0% 10.0% 5.0% 3.0%	-2.2% Delta	to Targe 88% % Relativ to Targe

- and	, ale trable i taliger	- 7 0			
					% Relative
	Market Value	Actual	Target	Delta	to Target
REAL RETURN ASSET CATEGORY:	\$1,772,856,913	15.5%	16.0%	-0.5%	97%

Table 12: Real Estate Asset Class	Allowable Range: 5-9%
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Table 12. Real Estate Asset Class		Allowable Kallye. 3-	9 /0			
Paul Fatata	Sub Asset Class	Manket Value	A -4I	T	D-14-	% Relative
Real Estate	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
Disabosale Dealte, Advisous Dautfalia	Cara Daal Fatata	\$829,580,796	7.3%	7.0%	0.3%	104%
Blackrock Realty Advisors Portfolio I	Core Real Estate	\$60,837				
Brookfield Premier Real Estate Partners, LP	Core Real Estate	\$102,406,872	0.9%			
Clarion Lion Properties Fund, LP	Core Real Estate	\$114,260,853	1.0%			
Cornerstone Realty Advisors	Core Real Estate	\$0	0.0%			
Jamestown Premier Property Fund LP	Core Real Estate	\$0	0.0%			
MetLife Core Property Fund, LP	Core Real Estate	\$63,365,440	0.6%			
Morgan Stanley Prime Property Fund	Core Real Estate	\$33,818,504	0.3%			
Principal US Property Account	Core Real Estate	\$48,855,905	0.4%			
Prologis Targeted Europe Logistics Fund, LP	Core Real Estate	\$60,907,830	0.5%			
Prologis Targeted US Logistics Fund, LP	Core Real Estate	\$78,917,911	0.7%			
Townsend Real Estate Fund, LP	Core Real Estate	\$118,988,141	1.0%			
Carlyle China Realty, L.P.	Non-Core Real Estate - Opportunistic	\$8,188,156	0.1%			
Carlyle China Rome Logistics, L.P.	Non-Core Real Estate - Opportunistic	\$36,325,294	0.3%			
KKR Real Estate Partners Americas, LP	Non-Core Real Estate - Opportunistic	\$2,701,989	0.0%			
Sculptor Real Estate Fund III, LP	Non-Core Real Estate - Opportunistic	\$11,170,181	0.1%			
Sculptor Real Estate Fund IV, L.P.	Non-Core Real Estate - Opportunistic	\$3,127,723	0.0%			
A.E.W Value Investors II, LP	Non-Core Real Estate - Value-Added	\$0	0.0%			
Asana Partners Fund II, L.P.	Non-Core Real Estate - Value-Added	\$9,862,937	0.1%			
CIM Opportunity Fund VIII, LP	Non-Core Real Estate - Value-Added	\$34,197,483	0.3%			
DRC European Real Estate Debt Fund II, LP	Non-Core Real Estate - Value-Added	\$7,100,182	0.1%			
ECE European Prime Shopping Centre Fund II, SCS-SIF	Non-Core Real Estate - Value-Added	\$33,574,604	0.3%			
Hammes Partners II, LP	Non-Core Real Estate - Value-Added	\$0	0.0%			
Hammes Partners III, LP	Non-Core Real Estate - Value-Added	\$4,985,746	0.0%			
Hines US Office Value Added Fund II, LP	Non-Core Real Estate - Value-Added	\$0	0.0%			
NREP Nordic Strategies Fund, FCP-FIS	Non-Core Real Estate - Value-Added	\$1,293,097	0.0%			
NREP Nordic Strategies Fund II, FCP-FIS	Non-Core Real Estate - Value-Added	\$30,962,452	0.3%			
NREP Nordic Strategies Fund III, FCP-FIS	Non-Core Real Estate - Value-Added	\$22,621,779	0.2%			
NREP Nordic Strategies Fund IV, FCP-FIS	Non-Core Real Estate - Value-Added	\$1,886,879	0.0%			
UBS (Allegis Value Trust)	Non-Core Real Estate - Value-Added	\$0	0.0%			
ODO (Miogra value Mast)	rion-Jore Near Estate - Value-Added	ΨΟ	0.070			

Table 13: Real Assets Asset Class Allowable Range: 5-9%

Table 13: Real Assets Asset Class	Allowable Range: 5-9%					
			•	•	•	% Relative
Real Assets	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
		\$563,901,217	4.9%	7.0%	-2.1%	70%
ACM Fund II, LP	Agriculture	\$17,503,968	0.2%			
Paine Schwartz Food Chain Fund V, L.P.	Agriculture	\$4,544,505	0.0%			
EnCap Energy Capital Fund IX, LP	Energy	\$8,521,221	0.1%			
EnCap Energy Capital Fund X, LP	Energy	\$25,594,176	0.2%			
NGP Royalty Partners, L.P.	Energy	\$6,594,591	0.1%			
Tailwater Energy Fund III, LP	Energy	\$22,842,640	0.2%			
Tailwater Energy Fund IV, LP	Energy	\$4,249,777	0.0%			
Quantum Energy Partners VI, LP	Energy	\$28,257,139	0.2%			
Quantum Energy Partners VII, LP	Energy	\$19,424,360	0.2%			
ArcLight Energy Partners Fund VI, LP	Infrastructure	\$26,560,761	0.2%			
Brookfield Infrastructure Fund III, LP	Infrastructure	\$29,683,660	0.3%			
Brookfield Infrastructure Fund IV, LP	Infrastructure	\$17,531,505	0.0%			
EnCap Flatrock Midstream Fund III, LP	Infrastructure	\$15,446,963	0.1%			
EnCap Flatrock Midstream Fund IV, LP	Infrastructure	\$9,277,667	0.1%			
EQT Infrastructure IV, SCSp	Infrastructure	\$21,219,428	0.2%			
First Reserve Energy Infrastructure Fund II, LP	Infrastructure	\$20,967,845	0.2%			
Harrison Street Social Infrastructure Fund LP	Infrastructure	\$0	0.0%			
IFM Global Infrastructure Fund	Infrastructure	\$127,360,869	1.1%			
ISQ Global Infrastructure Fund II, LP	Infrastructure	\$32,286,096	0.3%			
ISQ Global Infrastructure Fund III, L.P.	Infrastructure	\$0	0.0%			
Meridiam Infrastructure North America III, LP	Infrastructure	\$2,601,929	0.0%			
Pantheon SCERS SIRF, LLC	Infrastructure	\$59,467,566	0.5%			
Wastewater Opportunity Fund, LLC	Infrastructure	\$19,497,305	0.2%			
Atalaya SCERS SMA, LLC	Infrastructure Debt	\$17,189,977	0.2%			
Carlyle Power Partners II, LP	Power Generation	\$27,277,270	0.2%			

Table 14: Liquid Real Return Asset Class		Allowable Range: 0-3	3%			
						% Relative
Liquid Real Return	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
		\$379,374,900	3.3%	2.0%	1.3%	166%
SSGA Real Return Overlay Strategy	Passive Liquid Real Return Proxy	\$275,279,383	2.4%			
Brookfield Liquid Real Return	Active Liquid Real Return	\$104,095,517	0.9%			
·	·					
Table 15: Opportunities Asset Category		Allowable Range: 0-5	5%			
						% Relative
OPPORTUNITIES:	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
		\$5,169,021	0.0%	0.0%	0.0%	N/A
Atalaya Special Opportunities Fund V, LP	Opportunities - Credit	\$5,169,021	0.0%			
Table 16: Cash		Allowable Range: 0-2	2%			
						% Relative
Cash	Sub-Asset Class	Market Value	Actual	Target	Delta	to Target
		\$96,308,452	0.8%	1.0%	-0.2%	84%
Dedicated Cash Account		\$96,308,452	0.8%	1.0%	-0.2%	

Sub-Asset Class

Market Value \$389,031,650 \$275,366,689

\$113,664,961

Actual Target

3.4%

2.4%

1.0%

% Relative

to Target N/A

Delta

Table 17: Other Cash/Overlay

Other Cash/Overlay

SSgA Overlay Account

Other Cash

Appendix B: Overlay Proxies

Growth Asset Category Proxy:						
	Policy Allocation	Benchmark	Overlay Implementation			
Domestic Equities	20%	Russell 3000 Index	Basket of S&P 500; S&P 400; and Russell 2000 futures			
International Equities	20%	MSCI ACWI ex-US Index	Basket of Local Index, EAFE, EM Futures plus currency			
Private Equity	9%	Cambridge Associates PE/VC Index	Basket of 85% Gobal Equity and 15% US TSY			
Public Credit	2%	50% BofA High Yield/50% CS Leveraged Loan	Basket of 85% Gobal Equity and 15% US TSY			
Private Credit	4%	CS Leveraged Loan + 2%	Basket of 85% Gobal Equity and 15% US TSY			
Growth Absolute Return	3%	HFRI FoF Composite Index + 1%	Basket of 85% Gobal Equity and 15% US TSY			

Diversifying Asset Category Proxy:						
	Policy Allocation	Benchmark	Overlay Implementation			
Core/Core Plus Fixed Income	10%	Bloomberg Barclays Aggregate Index	Baskets of Treasury Futures and TBAs			
US Treasury	5%	Bloomberg Barclays UST Index	Baskets of Treasury Futures and TBAs			
Global Fixed Income	3%	80% Citi WGBI/20% JPM GBI EM Global	Baskets of Treasury Futures and TBAs			
Diversifying Absolute Return	7%	HFRI FoF Conservative Index	Baskets of Treasury Futures and TBAs			

Real Return Asset Category Proxy:					
	Policy Allocation*	Benchmark/Overlay Implementation			
Global Real Estate (REITs)	15%	FTSE EPRA/NAREIT Developed Liquid Index			
Global Infrastructure Equity	25%	S&P Global Infrastructure Index			
Global Natural Resources	10%	S&P Global Large Mid Cap Commodity and Resources Index			
Commodities	10%	Bloomberg Roll Select Commodity Index			
US Intermediate TIPS	30%	Bloomberg Barclays 1-10 Year US TIPS Index			
Floating Rate Notes	10%	Bloomberg Barclays US Dollar Floating Rate Note < 5 Years Index			

^{*}Relative to Real Return Asset Category