



**SOUTH CAROLINA
RETIREMENT SYSTEM INVESTMENT COMMISSION
2018-2019
ANNUAL INVESTMENT REPORT**

South Carolina Retirement System Investment Commission

Annual Investment Report

Fiscal Year Ended June 30, 2019

Ronald Wilder, Ph.D., Chairman

Capitol Center
1201 Main Street, Suite 1510
Columbia, SC 29201

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CHAIR REPORT

RONALD P. WILDER, PH. D
CHAIR

REBECCA M. GUNNLAUGSSON, PH. D
VICE-CHAIR

PEGGY G. BOYKIN, CPA
COMMISSIONER

ALLEN R. GILLESPIE, CFA
COMMISSIONER

WILLIAM (BILL) J. CONDON, JR. JD, MA, CPA
COMMISSIONER

WILLIAM (BILL) H. HANCOCK, CPA
COMMISSIONER

EDWARD N. GIOBBE, MBA
COMMISSIONER

REYNOLDS WILLIAMS, JD, CFP
COMMISSIONER



RETIREMENT SYSTEM INVESTMENT COMMISSION

December 9, 2019

The Honorable Henry D. McMaster, Governor
Members of the State Fiscal Accountability Authority
Members of the General Assembly of South Carolina

RE: 2018-2019 Annual Investment Report

Dear Ladies and Gentlemen:

On behalf of the South Carolina Retirement System Investment Commission (RSIC), it is my pleasure to provide the enclosed report on the investments performance of the South Carolina Retirement Systems portfolio for Fiscal Year Ended 2019.

For the Fiscal Year Ended June 30, 2019, the RSIC's investment portfolio performance achieved a 5.84 percent return net of management fees. Although the return for this past fiscal year did not exceed the assumed rate of return of 7.25, it did follow two fiscal years of strong performance which have resulted in a three-year rate of return of 8.48 percent.

The portfolio's positive investment performance resulted in a \$31.98 billion ending value of the portfolio versus an ending value of \$31.3 billion for the previous fiscal year. The increased total asset value resulted from a \$1.76 billion net inflow from investment performance which was offset by an outflow of \$1.08 billion in net benefit payments.

The portfolio did experience the resurgence of market volatility during the fiscal year, most notably during the market downturn in December of 2018. However, markets quickly recovered during the first half of calendar year 2019, more than erasing the losses experienced in December. Due to the market recovery, the portfolio was able to finish the year in positive territory, an outcome that seemed unlikely during the December 2018 sell-off. Equity markets have continued to rise during the second half of 2019 and the portfolio has benefited from this strong performance.

As always, we continue to be mindful that despite short-term volatility in the markets, we are long term investors charged with earning an investment return that not only helps provide promised benefits to our current retirees, but also to our future beneficiaries. We believe that our portfolio is well positioned to meet this long-term objective.

We continue to be humbled by the faith and trust placed in RSIC to invest and manage the assets of our State's retirement plans and the over 500,000 plan beneficiaries. We also greatly appreciate the support that you have provided not only to RSIC, but more importantly to the public servants of South Carolina we are privileged to serve.

Sincerely,



Ronald P. Wilder, Chair

CONSULTANT LETTER



MEMORANDUM

To: The Honorable Henry McMaster, Governor
State Fiscal Accountability Authority
Members of the General Assembly

From: Meketa Investment Group

Date: September 10, 2019

Re: Fiscal Year Ending June 30, 2019 Review

As the general investment consultant for the Retirement System Investment Commission (RSIC) of South Carolina, Meketa Investment Group is pleased to present this summary of the fiscal year events and investment performance of the South Carolina Retirement System (SCRS) investment portfolio for the fiscal year ending June 30, 2019.

FISCAL 2019 MARKET ENVIRONMENT REVIEW

While the early start of fiscal 2019 may have been characterized by worries of rising interest rates globally, this quickly shifted throughout the fiscal year as increasing concerns of a slowing global growth – made worse by trade tensions between the U.S. and China – prompted major central banks to consider more accommodative policies. In the U.S., the Federal Reserve reversed its prior course and cut interest rates. The European Central Bank (ECB) for its part held rates steady with a potential for further reduction, while the Bank of Japan showed no signs of pulling back from its unprecedented monetary stimulus. Of all the central banks, the U.S. has the most room to lower rates, while Japan and Europe are already in negative territory. With growth revisions for 2019 and 2020 (IMF forecast of 3.2% and 3.5% respectively) down by 0.1%, key risks to monitor will not only be continued trade tensions between U.S. and China, but the declining growth in China, political uncertainty in Europe, and risks related to Brexit dealings.

While global equities rebounded significantly from the lows of December 2018, the past twelve months certainly saw heightened volatility, with the VIX reaching 36 in December 2018 before re-tracing to 25 and further retreating to more muted levels by the June 30, 2019 fiscal year end. Nonetheless, for much of the fiscal year, most markets embraced a “risk on” appetite.

U.S. equities, as represented by the Russell 3000 Index, closed out the fiscal year with a 8.98% return. Non-U.S. equity markets, however, did not fare as well. Emerging markets delivered negative returns in the first half of the fiscal year, to close out the fiscal year with a 1.21% return. Trade tensions and a strong U.S. dollar strength continued to weigh down on results. The MSCI EAFE Index, representing foreign developed markets, followed closely behind returning 1.08%. Overall growth declined in Europe given the slowdown in Germany, uncertainties related to Brexit, and trade tensions.

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September 10, 2019
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The trend of U.S. growth stocks outperforming value stocks persisted throughout the fiscal year, with growth holding a 3.26% lead over value, as the Russell 3000 Growth closed out the fiscal year with a 10.6% return, versus 7.34% for the Russell 3000 Value.

Within fixed income, investment grade markets closed out the fiscal year on a strong note. Throughout out the first half of FY 2019, concerns over rising interest rates and inflation created headwinds. In the U.S., the Federal Reserve increased short-term interest rates to a range of 2.25% to 2.50% by December but this hawkish stance turned dovish in the second half of the fiscal year as central banks abruptly shifted to a more accommodative policy by early January 2019. Investment grade credit and high yield rebounded alongside the equity markets as a result, with the high yield market posting one of the strongest quarterly returns in nearly 10 years (7.26% for the quarter ending March 31, 2019). Despite this, the deterioration of U.S. and Chinese trade talk in May 2019 prompted a temporary drop in global equity prices and U.S. Treasury yields. The 3mo-10yr segment of the yield curve inverted for the second time in 2019, causing investors to question whether this might be a sign of worse things to come. Historically, the yield curve has been relied on as a barometer of economic strength and potential recession indicator. Inversions in the yield curve have historically preceded recessions, with a few exceptions.

Over the trailing fiscal year, the broad U.S. bond market, represented by the Bloomberg Barclays Aggregate Index, returned 7.87%, high yield bonds returned 7.48%, TIPS returned 4.84% and emerging market bonds (as represented by JPM GBI-EM Global Diversified Index) posted a 8.99% return for the fiscal year.

Within other asset classes, natural resource stocks (S&P Global Natural Resources Index) returned -4.02%, commodities (Bloomberg Commodity Index) lost -6.75%, and REITs (MSCI U.S. REIT Index) gained 9.66%. U.S. crude settled at \$58.72/barrel, down roughly 5% from prior fiscal year end levels, but well above the December 31, 2018 value of \$40.41. OPEC-led production cuts along with sanctions on Iran and Venezuela drove the higher prices though tempered by the slowing global economy.

LOOKING FORWARD

Looking forward, there are several issues that we will continue to monitor. First is slowing global growth. After increasing rates over the last several years from record lows, major central banks have shifted to a more accommodative stance. With little room for a reduction in rates outside the U.S., there is speculation of other policy measures being implemented, such as negative rates and/or further quantitative easing. Outside of the U.S., European economic conditions appear bleak as we continue to witness political uncertainty and ongoing structural issues. Brexit negotiations remain a concern. Within emerging markets, and China specifically, growth has slowed. Second, in the U.S., equity markets remain extended despite the volatility spike in the fourth quarter of 2018, and the current economic cycle has been one of the longest on record, now going into the tenth year. Also in the U.S., trade policy remains a key issue. We also see declining growth in China amid the impact of trade tensions with the U.S.

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The U.S. economy and equity markets have experienced a long period of growth since the Global Financial Crisis due in part to central bank support. Late cycle dynamics of low unemployment and rising inflation are in place, and valuations are stretched for equities, despite the recent pullback witnessed in December 2018. With the long economic and market expansions, and the many unresolved political and trade issues, we could see heightened volatility in the remainder of calendar year 2019. Other key issues in the U.S. will be policy uncertainty related to tariffs, immigration, and strategic alliances.

China has the second largest economy behind the U.S. After an extended period of growth driven by government investment and exports, it continues to manage a repositioning of its economy to one based increasingly on domestic consumption. This rebalancing process has led to a slowing of the economy which has hurt countries that have become reliant on its trade. The recent focus on tariffs between the U.S. and China is another key issue that could have a disproportionately negative impact on China, as the U.S. is one of their largest export destinations (18% of exports). Another core issue in China remains its high debt levels, particularly in the corporate sector.

Europe continues to have the structural problem of maintaining a single currency and central bank, while fiscal policy rests with each individual country. Consequently, countries that are experiencing financial difficulties are unable to use the traditional tools of lowering interest rates and devaluing their currency to stimulate growth. This has caused tensions within the Eurozone, as highlighted by the recent elections in Italy and the prior elections in Germany, as well as the on-going issues in Greece. Given the size of Italy's bond market and economy within the euro area, an Italian sovereign debt crisis or its departure from the euro could have significant consequences. Further, Brexit uncertainty continues to affect the Eurozone. We will continue to monitor these issues and others.

SCRS INVESTMENT RESULTS¹

As of June 30, 2019, the SCRS investment portfolio totaled \$31.98 billion. This represented an increase of \$674 million from June 30, 2018. Investment gains of \$1.76 billion were partially offset by net outflows of -\$1.08 billion in net benefit payments. SCRS generated a net return of 5.8%, underperforming the 6.5% return of its Policy Index. Over longer trailing periods, SCRS is outperforming its Policy Index and outperforming its actuarial rate of return. For example, the ten-year trailing net return for SCRS as of June 30, 2019 was 8.3% vs. a Policy Benchmark return of 7.7%.

The portfolio's asset allocation as of fiscal year-end is provided in the following table. All investments were consistent with the targets and ranges set forth in the Annual Investment Plan and in the Statement of Investment Objectives and Policy.

¹ SCRS returns are from BNY Mellon and are time-weighted, total return calculations, net of fees and expenses.

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Asset Class	% of Total System as of June 30, 2019	Target Allocation
Equities	51.5	51.0
Global Equity	37.3	36.7
Private Equity	7.1	7.3
Equity Options	7.1	7.0
Rate Sensitive	13.5	14.0
Cash and Short Duration	6.3	1.0
Core Fixed Income	7.2	13.0
Credit	13.9	15.0
Mixed Credit	4.2	4.9
Private Debt	6.3	6.1
Emerging Markets Debt	3.4	4.0
Opportunistic	9.3	8.0
GTAA	7.5	7.0
Other Opportunistic	1.8	1.0
Real Assets	11.8	12.0
Private Real Estate	7.5	7.5
Public Real Estate	1.3	1.5
Private Infrastructure	0.5	0.4
Public Infrastructure	2.5	2.6
Total	100.0	100.0
Hedge Funds PA	9.7	10.0

Respectfully submitted,



Frank E. Benham, CFA, CAIA
Director of Research, Managing Principal
Meketa Investment Group

OVERVIEW

PURPOSE & DUTIES

The South Carolina Retirement System Investment Commission (RSIC) is an independent agency of the State responsible for investing the assets held in trust for South Carolina's public pension. There are five defined benefit plans that comprise the public pension. Collectively, the defined benefit plans are referred to as the ("Retirement System") or the ("Systems"). The defined benefit plans are:

- South Carolina Retirement System (SCRS)
- Police Officers Retirement System (PORS)
- Judges and Solicitors Retirement System (JSRS)
- General Assembly Retirement System (GARS)
- South Carolina National Guard Retirement System Plan (SCNG Plan)

The assets of the Retirement System are invested in conformity with the requirements of South Carolina law. The law requires the RSIC to make investment decisions and conduct every aspect of its operations in the best financial interest of the trust.

The RSIC's long-term goal is to provide cost-effective management of the funds held in trust. This is achieved through a highly diversified portfolio designed to achieve an optimum investment return balanced with a prudent level of portfolio risk. The RSIC's investments are managed by its own professional staff and outside management firms.

The RSIC is governed by eight commissioners; six appointed members, one elected member, and one ex officio non-voting member. As of Fiscal Year End (FYE) 2019, members of the RSIC Commission ("Commission") are: Ronald P. Wilder, Ph.D., Chair; Rebecca M. Gunnlaugsson, Ph.D., Vice Chair; Edward Giobbe, MBA; Reynolds Williams, J.D., CFP; Allen R. Gillespie, CFA; William (Bill) Condon, J.D., M.A., CPA; William (Bill) Hancock CPA.; and Peggy G. Boykin, CPA.

HISTORY

The RSIC was created under the State Retirement System Preservation and Investment Reform Act (Act 153). In October 2005, the Commission was established and devolved fiduciary responsibility for all investments of the Retirement System upon the RSIC. Act 153 also mandated that equity investments cannot exceed 70% (formerly 40%) of the Total Plan Portfolio (Portfolio) and created the position of Chief Investment Officer.

The assets of the Retirement System had historically been invested only in fixed income investments until a constitutional amendment was ratified in 1997. The amendment allowed the RSIC to invest in "equity securities of a corporation within the United States that is registered on a national securities exchange as provided in the Securities Exchange Act, 1934, or a successor act, or quoted through the National Association of Securities Dealers Automatic Quotation System, or a similar service" (SC Constitution Article X, §16). The Retirement System began investing in equities in June 1999, although full diversification of the Portfolio remained constrained by the State Constitution. In November 2006, a constitutional amendment allowing for full diversification of the Retirement System's Portfolio was approved in a statewide referendum and subsequently ratified by the Legislature in February 2007.

The Retirement Funding and Administration Act of 2017 expands the Commission to 8 members and allows for delegation to the CIO under the direct oversight of the CEO the authority to invest up to 2% of the assets of each investment. It also prohibits the use of placement agents, defines the custodian of the retirement system as PEBA and assigns the choice of the custodial bank to RSIC.

DISCLOSURE OF MATERIAL INTEREST

As of June 30, 2019, there was no material interest noted by the Commission or an employee who is a fiduciary with respect to investment and management of assets of the Retirement System, or by a related person, in a material transaction with the Retirement System within the last three years nor in any proposed material transaction of the Retirement System.

PLACEMENT AGENT

All investments approved and closed during FYE 2019 follow the RSIC's Placement Agent Policy ("Policy"). The Policy requires representation by the investment manager that no compensation was paid to a placement agent (as defined by State law) as a result of an investment by the Retirement System. During FYE 2019, all Policy-required disclosures by new investment managers indicated that no compensation was paid to a placement agent in connection with the RSIC's investment.

COMMISSION

**RONALD WILDER****Ph. D., Chair***Retiree Representative**Elected by the Commission*

Dr. Ronald Wilder is a Distinguished Professor Emeritus of Economics at the Darla Moore School of Business, University of South Carolina, where he conducted research and taught courses in microeconomics, managerial economics, industrial organization, government and business, and health economics.

Dr. Wilder earned a B.A. and M.A. in Economics at Rice University, and a Ph.D. in Economics at Vanderbilt University.

**REBECCA GUNNLAUGSSON****Ph. D., Vice Chair***Appointed by the Comptroller General*

Dr. Rebecca Gunnlaugsson is an economist specializing in public finance and labor economics with proficiency in statistical data analysis and econometric modeling. She has extensive experience in business consulting concentrating on strategic planning, project management, and firm-wide technology implementation.

Dr. Gunnlaugsson has served as the Director of the Division of Research and subsequently Chief Economist at the South Carolina Department of Commerce. In these roles, she directed federally funded Department of Labor programs responsible for the development of state and local occupation growth projections, industry cluster analysis, and workforce program evaluation. Additionally, she led research teams conducting economic and fiscal impact analyses of economic issues impacting South Carolina, including state, local, public, and private infrastructure and development projects. She has done extensive research on taxation and optimization for long-term economic growth, having testified before the 2010 South Carolina Tax Realignment Commission (TRAC) and the 2017 South Carolina House Tax Policy Review Committee, as well as having served on the 2016 Governor's Local Government Competitiveness Council.

Her experience also includes serving as a senior technology consultant for Accenture where she was involved in firm-wide business and technology implementations for clients that included state governments, state universities, hospitals, and large national corporations. Dr. Gunnlaugsson is currently a principal at Acuitas Economics, where she specializes in statistical analysis and econometric modeling to develop interactive, visual methods to deliver data-driven insights and recommended policy solutions.

Dr. Gunnlaugsson received her Bachelor's and Master's Degrees in Mechanical Engineering from the Massachusetts Institute of Technology and her Ph.D. in Economics from the University of Michigan.



PEGGY G. BOYKIN

CPA, Commissioner

Ex officio member

Mrs. Peggy G. Boykin, CPA, is the Executive Director of the South Carolina Public Employee Benefit Authority (PEBA). Previously, she was the director of the South Carolina Retirement Systems and a member of PEBA's Board of Directors. Mrs. Boykin has also served as Director of Special Projects at the College of Charleston.

A native of Wagener, S.C., Mrs. Boykin earned a bachelor's degree in business administration from the College of Charleston in 1981 and her certified public account (CPA) accreditation in 1985. Also, she is a graduate of the Budget and Control Board's Executive Institute and the Governor's Center at Duke University. Mrs. Boykin received her certified retirement administrator designation in 1999.

Mrs. Boykin is an active member of the American Institute of Certified Public Accountants, the National Council on Teacher Retirement, the National Association of State Retirement Administrators, and the National Association of Government Defined Contribution Administrators.



WILLIAM J. (BILL) CONDON

J.D., M.A., CPA, Commissioner

Appointed by the Governor

Mr. William J. Condon, Jr. (Bill) is a Certified Public Accountant (CPA) and an attorney. After graduating from Clemson University with a B.S. in Accounting, he began his accounting career with Ernst & Young and in short order became a CPA. At the accounting firm, he held positions in the audit and tax departments, serving as an Audit Manager during the last three years of his tenure at E&Y. He managed the audits of clients in various industries including audits of companies in the financial services industry.

His experience also includes having served as Chief Financial Officer for a government agency. In this role, he oversaw the banking and investment activities as well as the Accounting, Human Resources, and Information Technology activities at the agency. Eventually, Mr. Condon transitioned from the public sector back to the private sector, serving as a Senior Consultant for a Silicon Valley-based software development company that serviced clients throughout North America.

Mr. Condon began his legal career as a trial attorney for the United States Department of Justice litigating civil rights cases. Looking to blend his accounting and finance experience with his legal skills, he later served as a securities-enforcement attorney for the South Carolina Attorney General's Office, as a securities-compliance and litigation attorney in private practice, and as a tax attorney litigating significant tax cases for the South Carolina Department of Revenue.

Today, Mr. Condon is an attorney for the South Carolina State Treasurer's Office where he has served both as Deputy General Counsel and the General Counsel and has worked with many large financial institutions on custody, securities lending, Section 529 college savings program, and other banking and investment matters.

Mr. Condon earned his Juris Doctor and Master in Public Policy degrees from Regent University.



ALLEN GILLESPIE

CFA, Commissioner

Appointed by the Chairman of House Ways & Means

Mr. Allen Gillespie, a native of Anderson, South Carolina, is the chief investment officer for FinTrust Capital Advisors. He has been in the investment industry since 1995, specializing in asset allocation research, manager due diligence, individual security analysis, and custom client portfolio management.

Mr. Gillespie graduated cum laude from Washington & Lee University, earning a bachelor's in Economics. He is also a member of the Omicron Delta Epsilon, Economics Honor Society. He has also been recognized as Institutional Investor's 25 Rising Starts of Hedge Funds, a Liberty Fellow, and is an accomplished writer in several financial journals.

He has served as a CFA Institute Research Challenge Mentor to Wofford College and University of Alabama. Mr. Gillespie holds FINRA Series 4, 7, 24, 53, 63, 65, 86, and 87 licenses.

Mr. Gillespie serves his community as the Chair of the Endowment Board for Meals on Wheels of Greenville and is a member of the GAMAC Endowment Board.



EDWARD GIOBBE

MBA, Commissioner

Appointed by the Governor

Mr. Edward Giobbe is a resident of Aiken, South Carolina. He has 37 years of experience in financial services and a diverse background that includes equities and fixed income in the areas of trading, sales, and investment banking.

He was a principal in the Fixed Income Division of Morgan Stanley Inc., in New York from 1978 until his retirement in 1995. Mr. Giobbe served as a member of the City of Aiken Planning Commission and remains active in community affairs.

While working at Morgan Stanley, Mr. Giobbe primarily worked with institutional sales specializing in major financial institutions such as bank trust departments, money managers, mutual funds, insurance companies, and pension funds.

Mr. Giobbe is a retired Captain in the United States Army Reserve, completing active duty in the United States and in Japan. He earned a Bachelor's degree from Yale University and MBA from the New York University Graduate School of Business Administration.



WILLIAM J. (BILL) HANCOCK

CPA, Commissioner

Appointed by the State Treasurer

Mr. William H. (Bill) Hancock, CPA, is a certified public accountant and the managing partner of the Brittingham Group, LLC located in West Columbia, South Carolina. He brings more than 25 years of experience in financial and accounting services.

He joined the Brittingham Group as a staff accountant in 1992 and was elected managing partner in 2013. For over 10 years he was responsible for the Firm's investment advisory/financial planning practice before successfully selling it, requiring him to surrender his Series 7 and 66 securities and South Carolina insurance licenses. Today, he continues to provide income tax planning and preparation services for individuals and business as well as providing audit/attest services for municipalities, non-profits, special purpose districts, and various political subdivisions.

As an active member of the community, Mr. Hancock is an Elder at Forest Lake Presbyterian Church, has served as the Chair of the Finance committee, serves on the Endowment committee, and is on several ad hoc committees for the church. He also serves on the board of directors and the finance committee for Presbyterian Communities of South Carolina (PCSC). PCSC has six Life Plan Communities across South Carolina and is a compassionate Christian ministry dedicated to enriching the quality of life for seniors of all faiths.

For over 20 years, he was a member of the Columbia East Rotary Club serving as Club Treasurer for most of that time. In 2012, he was appointed by South Carolina Governor Nikki Haley to be a Commissioner for the East Richland County Public Service District before resigning to serve as a Commissioner for the RSIC.

A proud graduate of the Citadel, Mr. Hancock graduated in 1990 with a Bachelor of Science degree in Business Administration with a concentration in Accounting. He also studied at the University of South Carolina's Moore School of Business.

Mr. Hancock resides in Columbia, South Carolina with his wife, Lori, a high school English teacher and their two daughters. In his spare time Mr. Hancock enjoys hunting and playing golf.



REYNOLDS WILLIAMS

J.D., CFP, Commissioner

Appointed by the Chairman of Senate Finance

Mr. Reynolds Williams is a native of Mullins, South Carolina.

For his service in Vietnam, he was awarded the Bronze Star and the Combat Infantry Badge.

Mr. Williams graduated cum laude from the Baylor School for Boys in Chattanooga, Tennessee, was an Echols Scholar at the University of Virginia, and earned his Juris Doctor from the University of South Carolina.

Mr. Williams is a recipient of the American Jurisprudence Award in Contract Law and was admitted into all state and federal courts in South Carolina, the United States Court of Appeals for the Fourth Circuit, and the U.S. Supreme Court.

He has served as chairman of several arbitration panels of the National Association of Securities Dealers, the American Arbitration Association, Florence County Election Commission, the Duke Private Adjudication Center, Board Chairman of Florence National Bank, and Greater Florence Chamber of Commerce.

He has also served as President of the Florence Rotary Club; on the school board at All Saints; Board of Directors of Community Bankshares; and the Board of Directors of Florence County Progress.

Mr. Williams was a Faculty Seminar Participant at the 1991 U.S. Army War College. He also served as Director of IRIX Pharmaceuticals.

Mr. Williams was the President of the S.C. Chapter of the Federalist Society and is a member of the Defense Research Institute, American Board of Trial Advocates, and South Carolina Defense Trial Attorneys Association.

He has served as Vice-Chairman of the State Board for Technical and Comprehensive Education.

Mr. Williams is recognized in the following books: *Leading Lawyers in America*, *Super Lawyers*, and *The Best Lawyers in America*. In 1999, Governor Beasley awarded Mr. Williams the Order of the Palmetto, South Carolina's highest honor, for his public service, civic responsibility, and friendship to the State. In 2001, he was named Business Person of the Year by the Greater Florence Chamber of Commerce.

The University of South Carolina School of Law recognized Williams as a Compleat Lawyer, for his 30+ years of "exemplary service" to the bar and the public.

A former Certified Financial Planner (CFP®), Mr. Williams was recognized in a Concurrent Resolution of the S.C. House and Senate for his leadership during the RSIC's formative years.

POLICY ALLOCATION

POLICY

The Commission manages the Systems' assets with a long-term horizon and seeks to earn an appropriate risk-adjusted return with consideration to the goals and circumstances of the Systems and in the exclusive interest of the members and beneficiaries. Among the decisions the Commission can make, asset allocation has the most significant impact on the portfolio's return, risk profile and cost, and is reviewed annually as part of the development of the Annual Investment Plan (AIP).

Based on the Commission's determination of the appropriate risk tolerance for the Portfolio and its long-term return expectations, it has authorized the following Policy Asset Allocation. This includes target allocations and ranges for each asset class that were adopted by the Commission for the 2018-2019 Fiscal Year.

Asset Class	Policy Targets	Target Ranges	Policy Benchmark
Rate Sensitive	14	4-24	
Cash and Short Duration	1	0-7	ICE BofA Merrill Lynch 3-Month Treasury Bill Index
Core Bonds	13	6-20	Weighted average of underlying sub-asset class targets in policy portfolio
Nominal Investment Grade Bonds	6		Bloomberg Barclays U.S. Aggregate Bond Index
Treasuries	5		
TIPS	2		Bloomberg Barclays US Treasury Inflation Notes TR Index Value Unhedged USD
Credit	15	10-20	
High Yield Bonds / Bank Loans ¹	4	0-8	50% S&P LSTA Leveraged Loan Index / 50% Bloomberg Barclays U.S. Corp. High Yield 2% Issuer Capped
Private Debt ^{1,5}	7	3-11	S&P LSTA Leveraged Loan Index + 150 BPs on a 3-month lag
Emerging Market Debt	4	2-6	50% JP Morgan EMBI Global Diversified (USD) / 50% JP Morgan GBI-EM Global Diversified (Local)
Equities	51	31-59	
Global Public Equity ^{1,2}	42	22-50	Weighted average of underlying sub-asset class targets in policy portfolio
US Equity ²	18		MSCI US IMI Net
Developed Market Equity (Non-U.S.) ²	11		MSCI WORLD EX US IMI Net
Emerging Market Equity ²	6		MSCI Emerging IMI Net
Equity Options	7	5-9	50% CBOE S&P 500 Putwrite / 50% CBOE S&P 500 Buywrite
Private Equity ^{1,5}	9	5-13	80% Russell 3000 Index / 20% MSCI EAFE Index plus 300 BPs, on a 3 month lag
Real Assets	12	7-17	
Real Estate	9	5-13	Weighted average of underlying sub-asset class targets in policy portfolio
Private Real Estate ^{1,5}	8		NCREIF ODCE Net Index + 100 basis Points
Public Real Estate (REITs) ¹	1		FTSE NAREIT Equity REITs Index
Infrastructure	3	1-5	Weighted average of underlying sub-asset class targets in policy portfolio
Public Infrastructure ¹	1		Dow Jones Brookfield Global Infrastructure Index
Private infrastructure ^{1,5}	2		Dow Jones Brookfield Global Infrastructure Index
Opportunistic	18		
Global Tactical Asset Allocation	7	3-11	Total System Policy Benchmark ex-Private Markets and Portable Alpha ³
Other Opportunistic and Risk Parity	1	0-3	Total System Policy Benchmark ex-Private Markets and Portable Alpha ³
Portable Alpha Hedge Funds ⁴	10	0-12	ICE BofA Merrill Lynch 3-Month T-Bills + 250BPS

¹The target weights to Private Equity, Private Debt, Real Estate, and Private Infrastructure will be equal to their actual flow adjusted weights, reported by the custodial bank, as of the prior month end. In the case of Private Equity, the use of the actual flow adjusted weight will affect the target allocation to Global Public Equity (excluding Equity Options). For example, in FY 18-19, the combined target weight of both of these asset classes shall equal 44% of the Plan. For Private Debt, the use of the actual flow adjusted weight will affect the target allocation to HY Bonds and Bank Loans, such that the combined target weight of both asset classes in FY 18-19 shall equal 11% of the Plan. For private market Real Estate, the use of the actual flow adjusted weight will affect the target allocation to public market Real Estate (REITs), such that the combined target weight of both asset classes in FY 18-19 shall equal 9% of the Plan. For Private Market Infrastructure, the use of the actual flow adjusted weight will affect the target allocation to public infrastructure, such that the combined target weight of both asset classes in FY 18-19 shall equal 3% of the Plan.

²Global Public Equity (excluding equity options) target portfolio's floating target is comprised of weighted regional underlying sub-asset class components: 51.4% MSCI US IMI Index for U.S. Equity, 31.4% MSCI World ex-US IMI Index for Developed Market Equity (non-U.S.), and 17.1% MSCI Emerging Markets IMI Index for Emerging Market Equity.

³Floating Targets between public and private markets do not apply to Opportunistic Benchmark. Weights are fixed at long term policy targets.

⁴Portable Alpha Hedge Funds are included in the Opportunistic target allocation and the Policy benchmark, and reported as gross exposure used as collateral supporting the Overlay program and nets to zero when calculating the total Plan allocation. Total Hedge Funds, including all hedge funds used in portable alpha implementation, are capped at 20 percent of total assets.

⁵Staff and Consultant will notify the Commission if Private Markets assets exceed 25 percent of total assets.

MANAGER RETURNS (NET OF FEES)

Schedule of Investments	Market Value	% of Fund	1 Year Ending	3 Year Ending	5 Year Ending	10 Year Ending
South Carolina Plan Return (Net of Fees)¹	\$31,979,716,060	100.0%	5.84%	8.48%	5.26%	8.33%
<i>South Carolina Policy Benchmark²</i>			6.50%	8.51%	5.45%	7.69%
Conservative Fixed Income*	\$3,510,927,059	11.0%	3.76%	1.80%	1.70%	3.14%
Total Cash	\$1,588,181,965	5.0%	1.95%	0.79%	0.27%	0.17%
Internal Cash	1,337,881,235	4.2%	2.47%	1.66%	1.21%	0.77%
Strategic Partnership Cash	250,300,730	0.8%	-0.96%	-1.85%	-1.77%	-1.07%
<i>ICE BofA Merrill Lynch 3-Month T-Bill</i>			2.31%	1.38%	0.87%	0.49%
Short Duration³	\$1,154,502,786	3.6%	3.81%	2.08%	1.85%	n/a
SCRS Short Duration	931,280,533	2.9%	3.65%	1.43%	1.31%	n/a
Penn Ltd Term HY	209,923,726	0.7%	4.95%	3.23%	2.79%	n/a
Apollo - Short Dura	13,298,528	0.0%	3.37%	3.01%	2.79%	n/a
<i>Bloomberg Barclays U.S. Government/Credit 1-3 Year Index</i>			4.27%	1.59%	1.46%	1.59%
Core Fixed Income	\$768,242,307	2.4%	7.40%	3.06%	3.25%	4.46%
Pimco Fixed Income	742,447,402	2.3%	7.45%	3.06%	3.09%	4.37%
SCRS Fixed Inc.	25,794,905	0.1%	6.87%	4.37%	4.04%	4.01%
<i>Bloomberg Barclays US Aggregate Bond Index</i>			7.87%	2.31%	2.95%	3.90%
Total Diversified Credit	\$4,438,970,568	13.9%	5.11%	6.01%	3.44%	7.71%
High Yield Bonds/Bank Loans	\$1,341,334,413	4.2%	4.39%	6.45%	2.87%	7.41%
Barings High Yield	122,394,799	0.4%	6.40%	n/a	n/a	n/a
Caspian SC Hldgs LP	224,375,799	0.7%	5.92%	8.20%	2.75%	n/a
Golden Tree Structured Credit	433,244,005	1.4%	4.83%	7.98%	n/a	n/a
Guggenheim Partners	360,189,509	1.1%	2.83%	6.02%	n/a	n/a
Pinebridge Bank Loan	201,130,300	0.6%	3.20%	4.69%	n/a	n/a
<i>High Yield Bonds/Bank Loans Benchmark⁴</i>			5.72%	6.38%	4.53%	6.66%
Emerging Markets Debt	\$1,074,663,591	3.4%	9.50%	4.98%	2.81%	5.44%
Ashmore External Debt	236,163,313	0.7%	12.80%	6.79%	n/a	n/a
GMO Emerging Country Debt	295,132,863	0.9%	9.80%	5.78%	n/a	n/a
Mondrian EMD	260,807,130	0.8%	9.91%	5.28%	0.35%	n/a
Wellington Emerging Local Debt	282,560,286	0.9%	7.30%	3.41%	n/a	n/a
<i>50% JPM EMBI USD / 50% JPM GBIEM Local</i>			10.77%	4.91%	2.46%	5.65%
Private Debt	\$2,022,972,563	6.3%	3.07%	6.85%	4.79%	9.35%
Angelo Gordon VI	5,846	0.0%	163.65%	32.85%	17.12%	16.11%
Apollo - Private Debt	335,563,434	1.0%	6.55%	9.47%	11.40%	14.66%
Ares Jasper Fund	258,548,058	0.8%	8.79%	n/a	n/a	n/a
Avenue SSF VI	8,173,936	0.0%	-1.34%	-1.05%	-5.68%	n/a
Barings BDC JV	50,000,000	0.2%	n/a	n/a	n/a	n/a
Crescent Mezz VI	37,741,617	0.1%	8.90%	8.52%	8.38%	n/a
Crescent Mezz V	1,918,927	0.0%	-35.72%	-9.24%	-2.79%	n/a
EIG Gateway Fund	9,500,000	0.0%	-3.58%	0.46%	-4.29%	n/a
Goldman Sachs Mezz V	1,213,095	0.0%	17.07%	5.24%	4.95%	11.17%
Goldman Sachs - Private Debt	117,636,862	0.4%	1.24%	8.32%	7.13%	9.80%
GSO - Private Debt	372,919,308	1.2%	-5.00%	3.19%	1.01%	n/a
Highbridge Sandlapper Credit	176,787,128	0.6%	12.22%	9.26%	n/a	n/a
KKR Lending III	75,710,326	0.2%	n/a	n/a	n/a	n/a
KKR Lending Partners II	41,740,459	0.1%	1.25%	6.63%	n/a	n/a
KKR SSF II	115,927,306	0.4%	3.68%	13.78%	n/a	n/a
Morgan Stanley - Private Debt	1,918,745	0.0%	18.53%	7.34%	2.49%	n/a
Northstar Mezz V	18,512,456	0.1%	7.99%	9.67%	12.17%	11.12%
Owl Rock Capital	195,476,107	0.6%	5.55%	n/a	n/a	n/a
Owl Rock First Lien	59,979,969	0.2%	n/a	n/a	n/a	n/a
Owl Rock Tech Holdings	25,162,957	0.1%	n/a	n/a	n/a	n/a
Sankaty COP IV	11,348,505	0.0%	-20.62%	14.64%	7.23%	8.85%
Sankaty COP V	26,870,367	0.1%	-1.74%	9.85%	3.01%	n/a
Selene II	36,827,768	0.1%	8.48%	7.43%	6.21%	n/a
SJC Direct Lend II	2,537,299	0.0%	8.37%	7.50%	8.73%	n/a
Strategic Credit OPP	33,416,753	0.1%	n/a	n/a	n/a	n/a
WL Ross - Whole Loans	7,535,334	0.0%	26.97%	0.42%	10.79%	n/a
<i>S&P/LSTA Leveraged Loan + 150 Bps on a 3-month lag</i>			4.47%	7.17%	5.12%	9.49%

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Schedule of Investments	Market Value	% of Fund	1 Year Ending	3 Year Ending	5 Year Ending	10 Year Ending
Total Global Equity	\$13,439,183,912	42.0%	3.75%	10.65%	6.52%	10.97%
Global Public Equity	\$9,347,283,515	29.2%	2.73%	10.95%	5.79%	10.43%
Equity Options	\$1,821,817,657	5.7%	2.93%	7.03%	n/a	n/a
AQR AERO Composite	857,117,168	2.7%	3.84%	n/a	n/a	n/a
Russell Options	964,700,489	3.0%	2.14%	6.64%	n/a	n/a
<i>Equity Options Blended Benchmark¹¹</i>			1.63%	6.91%	n/a	n/a
Total Global Equity Managers³	\$5,259,330,892	16.4%	5.27%	11.84%	6.87%	n/a
AQR Global Enhanced	940,550,065	2.9%	-0.90%	9.55%	n/a	n/a
BlackRock Global Equity	1,143,792,413	3.6%	6.84%	12.29%	6.98%	n/a
De Shaw World Enhanced Plus	991,232,952	3.1%	4.96%	12.26%	n/a	n/a
Intech Global EQ SMA	983,330,916	3.1%	8.22%	12.67%	n/a	n/a
State Street Gbl Eq	1,200,424,546	3.8%	6.84%	12.28%	n/a	n/a
<i>MSCI World Net Index</i>			6.33%	11.77%	6.60%	n/a
Total U.S. Equity	\$995,964,330	3.1%	-0.07%	11.07%	7.06%	13.66%
Integrity	360,687,049	1.1%	-6.02%	9.76%	5.13%	13.75%
Pyramis Global Advisors	400,121,329	1.3%	2.05%	12.86%	9.20%	15.82%
Russell SM/MID Cap Transition	29	0.0%	n/a	n/a	n/a	n/a
Times Square Cap Mgmt	235,155,923	0.7%	6.53%	13.56%	7.67%	15.22%
<i>US Equity Benchmark⁵</i>			8.33%	13.38%	9.83%	13.94%
Total International Equity³	\$1,083,721,000	3.4%	-4.61%	9.89%	1.42%	n/a
Algert GI International	205,993,012	0.6%	-8.48%	n/a	n/a	n/a
Johnston Fund	31,797	0.0%	-2.46%	-2.70%	-0.63%	n/a
LPE Earnest Partners	476,937,022	1.5%	0.33%	11.03%	2.05%	n/a
Man Numeric SM	239,186,405	0.7%	-11.48%	n/a	n/a	n/a
Russell International Small Cap Trans.	161,572,764	0.5%	-4.49%	n/a	n/a	n/a
<i>Developed International Equity Benchmark⁶</i>			-0.04%	9.10%	2.24%	n/a
Total Emerging Markets Equity³	\$2,008,267,293	6.3%	1.44%	9.89%	2.38%	n/a
Aberdeen	366,788,960	1.1%	11.21%	8.79%	2.61%	n/a
Blackrock EME	151,556,832	0.5%	n/a	n/a	n/a	n/a
Blackrock EME SM Cap	125,352,632	0.4%	n/a	n/a	n/a	n/a
LSV Asset Mgmt	583,496,499	1.8%	3.33%	10.84%	1.38%	n/a
Numeric EME Small Cap	256,598,499	0.8%	n/a	n/a	n/a	n/a
Schroders	149,459,948	0.5%	1.06%	12.15%	3.72%	n/a
William Blair	375,013,923	1.2%	-1.23%	10.31%	3.19%	n/a
<i>Emerging Markets Equity Benchmark⁷</i>			0.47%	10.01%	2.13%	n/a
<i>Global Public Equity Benchmark⁸</i>			4.56%	11.42%	6.04%	10.09%
Private Equity	\$2,270,082,739	7.1%	8.47%	12.63%	10.19%	12.54%
Advent Intl GPE VII	36,649,790	0.1%	1.79%	16.54%	13.43%	n/a
Apax Partners Europe VII	7,423,193	0.0%	-10.63%	-2.81%	-0.48%	6.60%
Apax Europe VIII	46,770,579	0.1%	22.25%	17.30%	18.22%	n/a
Apollo - Private Equity	554,781,703	1.7%	1.47%	8.47%	4.69%	16.73%
Apollo Offshore - Private Equity	27,070,815	0.1%	9.73%	n/a	n/a	n/a
Aquiline Financial I	49,850,509	0.2%	10.65%	16.15%	9.19%	10.92%
Aquiline Capital II	56,681,635	0.2%	-2.86%	2.92%	3.72%	n/a
Azalea Capital III	4,469,028	0.0%	8.41%	-15.86%	-14.37%	n/a
Azalea Fund IV	12,140,862	0.0%	9.51%	7.26%	n/a	n/a
BC European Cap IX	18,409,583	0.1%	2.89%	12.68%	9.93%	n/a
BCP V Coinvest I	22,047,765	0.1%	n/a	n/a	n/a	n/a
Bridgepoint Europe IV	28,049,336	0.1%	26.09%	20.98%	16.80%	9.35%
Bridgepoint Europe V	88,861,111	0.3%	16.53%	17.53%	n/a	n/a
Bridgepoint Europe VI	4,379,669	0.0%	n/a	n/a	n/a	n/a
BCP IV Co-Invest I	21,263,000	0.1%	n/a	n/a	n/a	n/a
Brookfield Cap Partners V	(681,142)	0.0%	n/a	n/a	n/a	n/a
Brookfield Capital IV	107,297,692	0.3%	27.83%	60.34%	n/a	n/a
Carousel Cap Part IV	32,388,754	0.1%	38.51%	66.10%	54.52%	n/a
Clayton Dubilier & Rice VIII	16,678,354	0.1%	-15.13%	10.34%	22.23%	15.88%
Crestview II	46,796,836	0.1%	-16.76%	10.92%	7.34%	12.63%
Crestview III	58,517,888	0.2%	33.36%	15.52%	n/a	n/a
Digital Colony I	14,062,281	0.0%	n/a	n/a	n/a	n/a

RETIREMENT SYSTEM INVESTMENT COMMISSION

Schedule of Investments	Market Value	% of Fund	1 Year Ending	3 Year Ending	5 Year Ending	10 Year Ending
Francisco Partners V	26,638,828	0.1%	1.43%	n/a	n/a	n/a
GCM Edisto GCM Direct	43,465,594	0.1%	n/a	n/a	n/a	n/a
GCM Edisto RSIC DIR	27,500,000	0.1%	n/a	n/a	n/a	n/a
Green Equity VI	41,305,913	0.1%	20.75%	19.44%	15.18%	n/a
Goldman Sachs - Private Equity	13,966,403	0.0%	16.73%	23.35%	18.49%	16.24%
Hellman Friedman IX	(107,491)	0.0%	n/a	n/a	n/a	n/a
Industry PH V	5,290,755	0.0%	n/a	n/a	n/a	n/a
Industry Ventures V	31,549,579	0.1%	15.20%	4.12%	22.49%	26.14%
Industry Ventures VI	12,815,658	0.0%	7.69%	1.77%	1.03%	n/a
Industry Ventures VII	27,719,673	0.1%	33.98%	18.09%	14.27%	n/a
Lexington Partners VII	25,555,164	0.1%	3.49%	7.92%	8.76%	n/a
Lexington Partners II	16,769,029	0.1%	13.32%	18.12%	16.03%	14.27%
Morgan Stanley - Private Equity	156,596,473	0.5%	-1.34%	-0.45%	-2.18%	3.95%
Oaktree EOF III	31,570,146	0.1%	5.57%	11.15%	9.06%	n/a
Pantheon Europe V	13,534,933	0.0%	23.46%	17.48%	13.68%	11.70%
Pantheon USA VII	49,874,195	0.2%	7.16%	11.70%	11.14%	12.34%
Paul Capital IX	21,220,818	0.1%	0.55%	3.72%	1.88%	5.50%
Pacific Equity Partners V	22,667,246	0.1%	22.62%	16.04%	n/a	n/a
Providence EQ VIII	(1,275,936)	0.0%	n/a	n/a	n/a	n/a
Providence Strat Growth III	56,510,533	0.2%	n/a	n/a	n/a	n/a
PSG III CO Invest I	10,000,000	0.0%	n/a	n/a	n/a	n/a
PSG VIII CO INV I	11,250,000	0.0%	n/a	n/a	n/a	n/a
Reservoir Capital	25,175,953	0.1%	-11.33%	7.27%	7.85%	n/a
Square 1 Venture 1	18,786,842	0.1%	9.35%	0.98%	1.07%	14.10%
Truebridge I CVE	42,693,042	0.1%	10.73%	12.12%	12.14%	12.48%
Truebridge II Kauff	85,126,311	0.3%	20.77%	12.48%	16.26%	n/a
Venture Investment Managers LP	58,311,940	0.2%	22.50%	16.20%	14.81%	11.76%
Warburg Pincus X	37,979,616	0.1%	4.93%	11.85%	6.96%	11.31%
Warburg Pincus XI	44,859,998	0.1%	14.42%	15.79%	14.90%	n/a
WCA&S XI	17,682,127	0.1%	1.41%	8.25%	8.32%	-5.07%
WL Ross - Private Equity	41,140,160	0.1%	1.37%	3.66%	6.08%	n/a
<i>80% Russell 3000 / 20% MSCI EAFE + 300 Bps on a 3-month lag</i>			9.23%	15.28%	11.76%	17.63%
Total Opportunistic	\$6,063,396,839	19.0%	3.66%	5.13%	3.19%	6.81%
GTAA	\$2,404,366,400	7.5%	4.77%	5.08%	2.73%	7.15%
Morgan Stanley GTAAN	815,695,200	2.6%	4.51%	n/a	n/a	n/a
Pinebridge GTAAN	755,292,000	2.4%	2.63%	n/a	n/a	n/a
Standard Life GTAAN	833,379,200	2.6%	7.05%	n/a	n/a	n/a
<i>GTAA Benchmark⁹</i>			5.88%	6.59%	3.97%	6.66%
Other Opportunistic	\$572,942,982	1.8%	7.72%	n/a	n/a	n/a
Apollo Offshore - Other Opportunistic	70,914,835	0.2%	n/a	n/a	n/a	n/a
Entrust - Other Opportunistic	72,414,804	0.2%	-7.38%	3.39%	4.22%	n/a
LH - Other Opportunistic	89,836,943	0.3%	n/a	n/a	n/a	n/a
Russell Other Opportunistic	252,045,044	0.8%	n/a	n/a	n/a	n/a
WLR - Other Opportunistic	87,731,356	0.3%	127.64%	n/a	n/a	n/a
<i>Opportunistic Benchmark¹⁰</i>			5.88%	6.59%	3.97%	n/a
Hedge Funds Portable Alpha	\$3,086,087,457	9.7%	1.83%	5.62%	4.73%	8.12%
Hedge Funds Portable Alpha¹⁴	\$3,086,087,457	9.7%	1.83%	5.62%	4.73%	8.12%
Blackstone SAF II Composite	80,844,052	0.3%	3.50%	4.67%	1.33%	n/a
Bridgewater PA II	487,273,286	1.5%	4.37%	9.69%	3.39%	8.05%
Bridgewater PAMM II	115,740,393	0.4%	-5.58%	4.60%	2.08%	n/a
De Shaw - Low Beta HF	637,696,758	2.0%	12.10%	10.64%	11.10%	10.77%
Grosvenor - Low Beta HF	3,429,770	0.0%	63.09%	39.93%	20.73%	n/a
Grosvenor - Mixed Credit HF	3,429,423	0.0%	-11.86%	-1.58%	-1.49%	n/a
Goldman Sachs - Low Beta HF	8,614,103	0.0%	48.05%	31.67%	18.48%	n/a
GSO - Mixed Credit HF	30,200,299	0.1%	-4.98%	-1.14%	-3.67%	n/a
Lighthouse Total HF	1,145,523,764	3.6%	0.63%	4.04%	2.88%	n/a
Man Alt Beta Strategies	217,493,509	0.7%	1.81%	n/a	n/a	n/a
Morgan Stanley - Low Beta HF	42,836,329	0.1%	-9.50%	-0.41%	-2.96%	4.51%
Reservoir Strategic Partners	31,670,771	0.1%	3.52%	3.21%	-0.82%	n/a

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Schedule of Investments	Market Value	% of Fund	1 Year Ending	3 Year Ending	5 Year Ending	10 Year Ending
Wellington Alt Beta	281,335,000	0.9%	-10.09%	n/a	n/a	n/a
<i>Hedge Funds Portable Alpha Blended Benchmark</i> ¹³			4.81%	1.58%	0.92%	3.67%
Total Real Assets	\$3,788,636,319	11.8%	9.07%	7.76%	11.29%	10.62%
Public Infrastructure	\$798,351,924	2.5%	13.22%	6.60%	n/a	n/a
Deutsche Infrastructure	702,149,804	2.2%	13.75%	6.76%	n/a	n/a
Russell Infrastructure Transition	96,202,120	0.3%	11.24%	n/a	n/a	n/a
<i>Dow Jones Brookfield Global Infrastructure Net Index</i>			12.69%	7.64%	n/a	n/a
Private Infrastructure	\$146,909,099	0.5%	11.63%	n/a	n/a	n/a
Actis Infra A	5,782,887	0.0%	n/a	n/a	n/a	n/a
Brookfield Supercore	55,463,547	0.2%	n/a	n/a	n/a	n/a
Macquarie Infrastructure Fund	85,662,666	0.3%	n/a	n/a	n/a	n/a
<i>Dow Jones Brookfield Global Infrastructure Net Index</i>			12.69%	7.64%	n/a	n/a
Public Real Estate	\$430,728,340	1.3%	11.96%	5.19%	n/a	n/a
Centersquare US REITS	101,196,582	0.3%	12.20%	5.27%	n/a	n/a
Centersquare US REIT Focused	329,531,758	1.0%	n/a	n/a	n/a	n/a
<i>FTSE Nareit Equity REITS Index</i>			11.21%	4.20%	n/a	n/a
Private Real Estate	\$2,412,646,956	7.5%	6.90%	8.82%	11.68%	11.53%
Congaree Partners, LP	18,419,761	0.1%	-38.46%	-18.35%	-11.25%	n/a
Asana Equity Partners II	(222,043)	0.0%	n/a	n/a	n/a	n/a
Apollo - Real Estate	50,037,958	0.2%	2.85%	6.40%	10.63%	n/a
Blackstone Property Prts LP	501,940,443	1.6%	8.00%	8.37%	n/a	n/a
Blackstone Rep VII	83,554,847	0.3%	0.94%	8.88%	11.95%	n/a
Brookfield REF IV	4,648,000	0.0%	11.17%	9.61%	n/a	n/a
Brookfield REF V	33,831,088	0.1%	6.85%	n/a	n/a	n/a
Brookfield SREP LP	48,129,942	0.2%	5.12%	20.80%	21.10%	n/a
Brookfield SREP II-B LP	64,504,404	0.2%	7.84%	9.36%	n/a	n/a
Brookfield SREP III B LP	18,066,862	0.1%	n/a	n/a	n/a	n/a
Carlyle Realty Partners VI	13,111,975	0.0%	-5.82%	0.46%	11.31%	n/a
Crow HRP VII	67,539,926	0.2%	16.93%	13.70%	n/a	n/a
Greystar Eq Part IX	128,268,224	0.4%	6.76%	n/a	n/a	n/a
Greystar Eq Part X	21,139,171	0.1%	n/a	n/a	n/a	n/a
Goldman Sachs - Real Estate	626,863	0.0%	0.90%	-1.36%	17.19%	39.26%
Heitman Core RE Credit	101,591,261	0.3%	7.32%	n/a	n/a	n/a
Lonestar II	1,945,165	0.0%	9.63%	5.65%	22.27%	n/a
Morgan Stanley Prime	702,232,516	2.2%	7.13%	8.16%	n/a	n/a
Morgan Stanley - Real Estate	65,274,426	0.2%	12.15%	11.52%	10.65%	9.05%
Oaktree ROF VI	30,630,155	0.1%	3.39%	5.75%	9.68%	n/a
Oaktree V	7,069,903	0.0%	-9.26%	4.70%	8.64%	n/a
Och-Ziff II	11,876,852	0.0%	20.07%	23.90%	24.17%	n/a
TA Realty FundofOne	261,414,313	0.8%	10.47%	11.67%	n/a	n/a
TA Realty X	35,054,455	0.1%	15.94%	13.39%	13.40%	n/a
Torchlight IV	22,990,085	0.1%	10.18%	12.03%	10.99%	n/a
Torchlight V	88,001,491	0.3%	10.03%	14.13%	n/a	n/a
WL Ross - Real Estate	30,968,914	0.1%	5.60%	6.10%	5.90%	n/a
<i>Private Real Estate Blended Benchmark</i> ¹²			6.46%	8.11%	10.55%	9.31%
Russell Overlay	\$738,601,363	2.3%	53.94%	47.28%	13.31%	17.53%
Russell Overlay	\$738,601,363	2.3%	53.94%	47.28%	13.31%	17.53%

¹ Plan returns are from BNYMellon and are time-weighted, total return, net of fees and expenses, and expressed in USD. Periods greater than one year are annualized. Returns generated from synthetic exposure through the Overlay Program are reflected in the Total Plan return but are not included in the asset class segment returns.

² The Policy Benchmark is set annually by the RSIC and has changed over time. The presented returns are a blend of previous policies.

³ Due to the changing nature of asset allocation, some asset classes may not have 10 years of history.

⁴ High Yield Bonds/Bank Loans: 50% Bloomberg Barclays US Corporate High Yield 2% Issuer Capped Bond Index and 50% S&P/LSTA Leveraged Loan Index.

⁵ US Equity Benchmark: MSCI United States Index (net of dividends) through 06/30/2016; MSCI United States Investable Market Index (net of dividends) since.

⁶ Developed International Equity Benchmark: MSCI EAFE Index (net of dividends) through 06/30/2016; MSCI EAFE Investable Market Index (net of dividends) 6/30/2016-6/30/2018; MSCI World Excluding United States Investable Market Index (net of dividends) since.

Schedule of Investments	Market Value	% of Fund	1 Year Ending	3 Year Ending	5 Year Ending	10 Year Ending
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⁷ Emerging Markets Equity Benchmark: MSCI Emerging Markets Index (net of dividends) through 06/30/2016; MSCI Emerging Markets Investable Market Index (net of dividends) since.

⁸ Global Public Equity Benchmark: MSCI All-Country World Index (net of dividends) through 06/30/2016; MSCI All-Country World Investable Market Index (net of dividends) through 6/30/2018, and a Weighted Average of Underlying sub-asset class targets in the Policy Portfolio since.

⁹ GTAA Benchmark: 50% MSCI World Index (Net of Dividends)/50% FTSE World Government Bond Index prior to 7/1/2016; 50% MSCI World Index (Net of Dividends)/50% Bloomberg Barclays US Aggregate Bond Index from 7/1/2016 to 6/30/2018; Total System Policy Benchmark Excluding Private Markets and Portable Alpha since.

¹⁰ Opportunistic Benchmark: 50% MSCI World Index (Net of Dividends)/50% Bloomberg Barclays US Aggregate Bond Index from 7/1/2016 to 6/30/2018, Total System Policy Benchmark Excluding Private Markets and Portable Alpha since.

¹¹ Equity Options Blended Benchmark: CBOE Buy Write Index through FY2018; 50% CBOE BuyWrite, 50% CBOE PutWrite blend since.

¹² Private Real Estate Blended Benchmark: NCREIF ODCE Index + 75 bps FY 2018 and prior, NCREIF ODCE Index NET + 100 bps since.

¹³ Portable Alpha Benchmark: Prior to 7/1/2016 HFRI Fund Weighted Composite Index (NOTE: PA HFs were considered Low Beta Hedge Funds at this time), 7/1/2016-6/30/2018 benchmark was effectively zero due to no benchmark, 7/1/2018-Present ICE BofA Merrill Lynch 3-Month T-Bills + 250 basis points.

¹⁴ Hedge Funds Portable Alpha reported as gross exposure but, as collateral support to the overlay program, net to zero when calculating the total plan.

* TIPS exposure is gained synthetically through the overlay program, therefore the asset class does not appear in the performance schedule. TIPS represents approximately 2% of the Plan market value based on notional exposure of \$615,675,161.92

SECURITIES LENDING

PORTFOLIO STRUCTURE

The Portfolio currently participates in a securities lending program, managed by the BNYMellon (“Securities Lending Program”), whereby securities are loaned for the purpose of generating additional income. BNYMellon is responsible for making loans of securities to various broker-dealers and collecting cash and non-cash collateral. If the collateral value falls below a predetermined level, the borrower must post additional collateral. The cash collateral is invested in short duration securities and monitored on an ongoing basis. In conjunction with generating revenue, the collateral pool seeks to maintain a net asset value (NAV) of \$1.00, which is determined by dividing the market value of the assets by the cost of those assets.

PORTFOLIO DEVELOPMENTS

The Securities Lending Program (Program) continues to employ very conservative guidelines on both the lending and re-investment transaction. The re-investment of the cash collateral is restricted to short duration, very low risk securities. The gross securities lending revenue for the fiscal year was approximately \$3.0 million, an increase from \$2.0 million in the prior year.

On June 30, 2019, the NAV of the collateral pool was \$0.48. The market value of the collateral pool was approximately \$41.2 million, with an amortized cost of approximately \$86.7 million.

STATISTICS

Asset Class	Average Lendable Securities (MV)	Average Utilization (MV)	Average Utilization	Average Lending Spread*
U.S. Agency Debt	\$ 432,992	\$ -	-	-
U.S. Corporate Bonds	1,054,568	12,744	1.21%	-0.16%
U.S. Equities	3,166,501	561,757	17.74%	0.21%
U.S. Mortgage Backed Securities	125,496	-	-	-
U.S. Treasuries	339,546	254,185	74.86%	0.32%
Non - U.S. Corporate	99,860	-	-	-
Non - U.S. Equity	1,606,822	239,391	14.90%	0.32%
Sovereign	159,825	-	-	-

*Average Lending Spread: The difference between the benchmark Overnight Bank Funding Rate and the Weighted Average Rebate Rate (i.e. the spread reporting the intrinsic value of the security).

Source: BNYMellon

INCOME

Securities Lending Activities	2015	2016	2017	2018	2019
Securities Lending Income	\$167	\$188	\$572	\$2,219	\$3,342
Securities Lending Rebate ¹	1,811	758	201	-226	-295
Total Securities Lending Income	1,978	946	773	1,992	3,047

¹ Rebate rates establish the economic "cost" of the lending transaction: positive rebates indicate the borrower pays the lender.

Amounts expressed in thousands and thus, may not add up to totals due to rounding.

EXPENSES

OVERVIEW

For fiscal year 2019, total investment and administrative expenses decreased by \$45.96 million to \$328.02 million. As a percent of total assets, total expenses decreased to 1.03% of Total Plan Assets. Investment management fees and expenses for fiscal year 2019 decreased by \$48.71 million to \$310.24 million. The primary contributing factor to this decrease was lower performance, relative to fiscal year 2018, in asset classes that utilize performance fee structures. Bank Fees and Investment Expense, which are associated with custodied accounts and primarily consist of commissions on futures contracts and bank fees, increased by \$2.08 million to \$5.49 million. General administrative expenses increased by \$0.68 million to \$12.3 million.

Brokerage fees are broken out separately as commissions paid to brokers are considered a part of the investment cost basis and, therefore, not reported in investment management expenses.

Investment management fees and expenses generally consists of three categories; investment management fees, performance fees including carried interest allocation, and other investing expenses such as organizational costs in limited partnership structures. Investment management fees are generally a percentage fee based on the assets under management and paid to the manager of the fund for providing the service of investing the assets. Investment management fees are reported net of offsets which have the effect of reducing this total. Performance fees, including carried interest allocation, are a share of the profits from an investment or fund and is paid to the investment manager to create an alignment of interests.

Investment management fees and expenses are either paid by invoice or netted from investment assets. Under Governmental Accounting Standards Board (GASB) accounting guidance, "Investment-related costs should be reported as investment expense if they are separable from (a) investment income and (b) the administrative expense of the pension plan."* RSIC makes a good faith attempt to disaggregate netted fee amounts that are not necessarily readily separable from investment income. The RSIC collects and aggregates the netted investment fees and checks for reasonableness in order to disclose fees that would not otherwise be disclosed. In order to compare investment expense as reported by the Systems with investment management costs reported by other public pension plans, an understanding of the actual fees and expenses included in any comparative reports is necessary. Additionally, investment plan composition directly influences the fee structure of a plan and adjustments for differences in plan asset allocation is necessary before conclusions can be reached from such comparisons.

SCHEDULE OF INVESTMENT EXPENSES

Investment & Administrative Expenses	2015	2016	2017	2018	2019
Total Plan Assets	\$29,189,538	\$27,979,653	\$30,102,107	\$31,306,135	\$31,979,716
Investment Management Expenses					
Investment Management Fees & Expenses	348,224	246,930	302,904	358,955	310,243
Bank Fees and Investment Expense ¹	2,233	2,342	3,033	3,414	5,493
Administrative Expenses ²	11,702	10,750	10,705	11,600	12,279
Total Investment and Administrative Expenses	\$362,159	\$260,022	\$316,643	\$373,970	\$328,015
Total Expenses as a Percentage of Total Assets	1.24%	0.93%	1.05%	1.19%	1.03%
Brokerage Fees	\$4,431	\$4,261	\$5,521	\$5,338	\$4,433
Brokerage Fees as a Percentage of Total Assets	0.02%	0.02%	0.02%	0.02%	0.01%

¹ Includes miscellaneous investment expenses, commissions on futures, and bank fees but excludes RSIC administrative costs in the form of transfers to RSIC in the amount of \$15.8 Million.

² Represents RSIC's actual expenses which equal transfers to RSIC less net change in RSIC cash on hand.

INVESTMENT MANAGEMENT FEES AND EXPENSES BY ASSET CLASS

Asset Class	NAV ¹	Fiscal Year Performance ²	Expressed in Dollars (\$)			
			Management Fee ³	Performance Fee ⁶	Other Fees	Total Fees
Cash and Short Duration	\$ 2,007,721		\$1,009	\$ -	\$ 334	\$ 1,343
Core Fixed Income	2,307,530	7.65%	1,724	-	-	1,724
High Yield/Bank Loans	1,341,334	4.39%	6,395	2	77	6,473
Emerging Markets Debt	1,074,664	9.50%	5,076	-	443	5,519
Global Public Equity	11,917,206	4.11%	30,080	-	280	30,360
Equity Options	2,272,259	2.40%	4,006	-	-	4,006
Portable Alpha Hedge Funds	-	1.83%	47,142	29,872	3,132	80,147
Private Debt	2,022,973	3.07%	21,366	5,130	10,375	36,870
Private Equity	2,270,083	8.47%	31,945	48,107	10,760	90,813
Public Real Estate	430,728	11.96%	2,508	-	-	2,508
Private Real Estate	2,412,647	6.90%	23,917	11,257	3,435	38,609
GTAA	2,404,366	4.77%	6,483	-	-	6,483
Other Opportunistic	572,943	7.72%	1,029	(1,261)	664	433
Public Infrastructure	798,352	13.22%	2,918	-	-	2,918
Private Infrastructure	146,909	11.63%	1,235	137	663	2,035
Total	\$ 31,979,716	5.84%	\$186,834	\$ 93,245	\$ 30,163	\$ 310,243

Asset Class	NAV ¹	Fiscal Year Performance ²	Expressed in Percentages (%)			
			Management Fee ^{3,4}	Performance Fee ⁴	Other Fees ^{3,4}	Total Fees ⁴
Cash and Short Duration	\$ 2,007,721	0.00%	0.05%	0.00%	0.02%	0.07%
Core Fixed Income	2,307,530	7.65%	0.07%	0.00%	0.00%	0.07%
Mixed Credit	1,341,334	4.39%	0.48%	0.00%	0.01%	0.48%
Emerging Markets Debt	1,074,664	9.50%	0.47%	0.00%	0.04%	0.51%
Global Public Equity	11,917,206	4.11%	0.25%	0.00%	0.00%	0.25%
Equity Options	2,272,259	2.40%	0.18%	0.00%	0.00%	0.18%
Portable Alpha Hedge Funds ⁵	-	1.83%	1.53%	0.97%	0.10%	2.60%
Private Debt	2,022,973	3.07%	1.06%	0.25%	0.51%	1.82%
Private Equity	2,270,083	8.47%	1.41%	2.12%	0.47%	4.00%
Public Real Estate	430,728	11.96%	0.58%	0.00%	0.00%	0.58%
Private Real Estate	2,412,647	6.90%	0.99%	0.47%	0.14%	1.60%
GTAA	2,404,366	4.77%	0.27%	0.00%	0.00%	0.27%
Other Opportunistic	572,943	7.72%	0.18%	-0.22%	0.12%	0.08%
Public Infrastructure	798,352	13.22%	0.37%	0.00%	0.00%	0.37%
Private Infrastructure	146,909	11.63%	0.84%	0.09%	0.45%	1.39%
Total	\$ 31,979,716	5.84%	0.58%	0.29%	0.09%	0.97%

¹ Asset Class NAV is net of the Notional Exposure of the Beta Overlay program.

² Plan Returns are time-weighted, total return calculations, net of fees and expenses. All returns are expressed in U.S. Dollars. Returns generated from synthetic exposure through the Beta Overlay Program are reflected in the total Plan return and asset class segment returns.

³ Overlay and top level strategic partnership fees are allocated to asset classes proportionately by NAV.

⁴ Fees expressed as a percentage of the ending Asset Class NAV.

⁵ Fees expressed as a percentage of gross exposure to the Beta Overlay program of \$3,086,087,460.

⁶ Performance Fees includes accrued carried interest.

Amounts expressed in thousands and thus, may not add up to totals due to rounding.

DELEGATION AUTHORITY

INVESTMENT AUTHORITY DELEGATION

Pursuant to Section 9-16-330(B) of the 1976 South Carolina Code of Laws, the Commission delegates to the Chief Investment Officer the final authority to invest subject to the oversight of the Chief Executive Officer and the requirements and limitations of the Investment Authority Delegation Policy. Investment Authority Delegation allows the RSIC to make investments without requiring prior approval of the Commission provided the investment process adheres to the RSIC's Due Diligence Guidelines and Policies. The investment process for any investment made pursuant to this policy must be substantially similar to the investment process employed prior to the adoption of this policy except for the requirement that the Commission approve the investment prior to the closing the investment. The size of an individual investment made pursuant to the policy is subject to specific limitations provided for the asset class applicable to the investment. An investment can be made pursuant to this policy if it a) is not the initial investment in a new asset class, b) the majority of the underlying assets comprising the investment have been previously included in the investment portfolio, and c) the strategy to be employed by the investment manager is substantially similar to an investment that has been previously subject to the Commission's investment due diligence process.

The following table is presented Pursuant to Section 9-16-90(B)(6) of the 1976 South Carolina Code of laws:

DELEGATED INVESTMENTS

Fund Name	Asset Class	Investment Close Date ¹	Net Asset Value ⁵	Total Fees ³	Performance Since Inception ²	Performance Inception Date ⁴
Digital Colony I	Private Equity	03/22/18	\$14,062	\$1,716	-5.32%	05/01/18
Bridgepoint Europe VI	Private Equity	04/10/18	4,380	1,299	-7.10%	11/01/18
Industry Ventures Partnership Holdings V	Private Equity	06/01/18	5,291	218	49.10%	03/01/19
Providence Strategic Growth III	Private Equity	06/11/18	56,511	1,919	34.06%	08/01/18
Providence Equity Partners VIII	Private Equity	07/06/18	-1,276	2,971	-39.93%	11/01/18
Numeric EME	Global Public Equity	07/30/18	256,598	1,139	-12.62%	08/01/18
Hellman & Friedman Capital Partners IX	Private Equity	09/29/18	-107	291	0.00%	04/01/19
Owl Rock First Lien Fund	Private Debt	10/02/18	59,980	2,243	0.16%	01/01/19
Brookfield Strategic Real Estate Partners III	Private Real Estate	10/19/18	18,067	2,266	0.00%	03/01/19
Brookfield Capital Partners V	Private Equity	10/24/18	-681	1,584	0.00%	04/01/19
KKR Lending Partners III	Private Debt	11/02/18	75,710	1,452	19.44%	01/01/19
Owl Rock Technology Finance Corp	Private Debt	12/21/18	25,163	399	-0.58%	04/01/19
Owl Rock Technology Holdings LLC	Private Debt	12/21/18	0	0	0.00%	n/a
Brookfield Super Core	Private Infrastructure	12/21/18	55,464	516	1.40%	02/01/19
Blackstone Real Estate Partners IX	Private Real Estate	12/21/18	0	0	0.00%	n/a
Providence Strategic Growth IV	Private Equity	04/26/19	0	294	0.00%	n/a
Actis Long Life Infrastructure Fund	Private Infrastructure	04/30/19	5,783	0	0.00%	n/a
TA Associates Fund XIII	Private Real Estate	05/02/19	0	0	0.00%	n/a
Great Hill Equity Partners VII	Private Equity	06/28/19	0	0	0.00%	n/a
Strategic Credit Opportunities	Private Debt	06/28/19	0	0	0.00%	n/a
Total			\$574,944	\$18,307		

¹Represents the date on which the RSIC executed the contracts and not the date the investment was funded.

²Returns are time-weighted, total return calculations, net of fees and expenses. All returns are expressed in U.S. Dollars. Periods greater than one year are annualized. Additional performance information can be found in the Manager Returns section of this report. Time-weighted methodology may not be an appropriate performance measure for private markets investments. Zero performance indicates no mark-to-market valuations have been received as of fiscal year end.

³Total fees are for the fiscal year and include management fees, performance fees including accrued carried interest, and other expenses.

⁴Performance inception begins with the first full month of performance. "n/a" signifies no full month of performance prior to fiscal year end.

⁵Negative NAV reflects valuations where the general partner has made investments and/or incurred expenses but has not yet called capital from limited partners.

Amounts expressed in thousands and thus, may not add up to totals due to rounding.

RISK

OVERVIEW

The Commission will fulfill its fiduciary responsibility by prudently managing the assets held in trust for the sole benefit of the participants and beneficiaries of the Systems. It will seek superior long-term investment results at a reasonable level of risk.

The RSIC invests the assets of the trust in order to earn the required rate of return (7.25 percent as of fiscal year end) over time. With short-term interest rates at historic lows, in order to achieve this goal, an investor is required to expose his or her assets to risk. Instead of pooling one's risk, a prudent investor seeks to balance his or her risks in order to reduce the risk of severe loss. This principle of diversification is central to the RSIC's portfolio asset allocation.

The RSIC also believes that over time, an investor earns a return that is commensurate with the level of risk taken. Risk, in this sense, is a term that refers broadly to an investment's risk of loss. The RSIC typically uses the standard deviation of returns in order to quantify this economic risk of an asset, strategy, asset class, or the broad portfolio. However, there are other risks that are much more difficult to measure (and therefore, mitigate). The RSIC believes risks can be reduced through diversification, a strong due diligence process, ongoing monitoring, and risk management. Some examples of these risks include:

CONCENTRATION OF CREDIT RISK - INVESTMENTS

Concentration of credit risk is the risk of loss attributed to the magnitude of investment in a single issuer or counterparty. The Systems' policy for reducing this risk is to comply with the Statement of Investment Objectives and Policies as amended and adopted by the Commission which states that "except that no limitations on issues and issuers shall apply to obligations of the U.S. Government and Federal Agencies, the domestic fixed income portfolio shall contain no more than 6 percent exposure to any single issuer." As of June 30, 2019, there is no single issuer exposure within the portfolio that comprises 5 percent or more of the overall portfolio.

CREDIT RISK OF DEBT SECURITIES

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations to the Systems. As a matter of practice, there are no overarching limitations for credit risk exposures within the overall fixed income portfolio.

Each individual portfolio within fixed income is managed in accordance with investment guidelines that are specific as to permissible credit quality ranges, exposure levels within individual quality tiers, and average credit quality. Within high yield portfolios, a quality rating of lower than C is not permissible in any of the fixed income guidelines except in those circumstances of downgrades subsequent to purchase, in which case the investment manager is responsible for communicating the downgrade to the Commission's consultant and staff.

CUSTODIAL CREDIT RISK - INVESTMENTS

Custodial credit risk for investments is the risk that, in the event of a failure of the counterparty, the Systems will not be able to recover the value of the investments or collateral securities that are in the possession of an outside party. Investing for the Systems is governed by Section 16, Article X of the South Carolina Constitution and Section 9-1-1310(B) and Title 9 Section 16 of the South Carolina Code of Laws. Funds held in trust for the Systems may be invested and reinvested in a variety of instruments including, but not limited to, fixed income instruments of the United States, foreign fixed income obligations, swaps, forward contracts, futures and options, domestic and international equity securities, private equity, real estate, and fund of funds.

CUSTODIAL CREDIT RISK – DEPOSITS

Custodial credit risk for deposits is the risk that in the event of a bank failure, the Systems' deposits may not be recovered. As prescribed by South Carolina state statute, the South Carolina Public Employee Benefit Authority (PEBA) is the custodian of all deposits and is responsible for securing all deposits held by banks. These deposits are secured by deposit insurance, surety bonds, collateral securities, or letters of credit to protect the state against loss in the event of insolvency or liquidation of the institution or for any other cause. Deposits are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000 or collateralized with securities held by the state or its agent in PEBA's name as custodian.

EQUITY RISK

Equity risk refers to the financial risk of loss that results from ownership. Equity risk is typically observed using the standard deviation of returns.

FOREIGN CURRENCY RISK

Foreign currency risk is the risk that changes in exchange rates will adversely impact the fair value of an investment. The Systems participate in foreign markets to diversify assets, reduce risk and enhance returns. Currency forwards are used to manage currency fluctuations and are permitted by investment policy. Policy, however, forbids speculating in forwards and other derivatives.

INTEREST RATE RISK

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment or portfolio. While the RSIC has no formal interest rate risk policy, interest rate risk is observed within the portfolio using effective duration (option adjusted duration), which is a measure of the price sensitivity of a bond or a portfolio of bonds to interest rate movements given a 100 basis point change in interest rates. Effective duration takes into account that expected cash flows will fluctuate as interest rates change and provides a measure of risk that changes proportionately with market rates. Investment guidelines may specify the degree of interest rate risk taken versus the benchmark within each fixed income portfolio.

LEVERAGE RISK

Leverage is the use of borrowed capital to increase potential investment returns. While the trust is not allowed to utilize leverage at the total plan level, certain investment vehicles, in particular alternative investment funds, can utilize leverage. The trust itself, however is not levered at the total plan level, and the total loss exposure to the trust is limited to the capital invested/committed to the investment vehicle.

LIQUIDITY RISK

Liquidity risk is the risk of having limited access to funds, resulting from a lack of market liquidity or restrictions on the sale of ownership interests. The term “liquidity risk” distinguishes a form of market risk which typically occurs when demand for a given security is weak, or the supply of a security is low. Liquidity risk is higher for “private market” investments, such as private equity and real estate funds. While so-called “secondary sales”—privately arranged transfers of interests in these investments—are an increasingly viable option, selling these interests can be subject to restrictions and may require the seller to accept a discount to the investment’s valuation. There is no publicly available exchange or marketplace on which to liquidate these ownership interests.

VALUATION RISK

The fair values of alternative investments including private equity, private debt, hedge funds, real estate and commodities, for which daily market values are not readily ascertainable, are valued in good faith based on the most recent financial information available for the underlying companies and reported by the investment managers at the measurement date, adjusted for subsequent cash flow activities through June 30, 2019. The estimated fair value of these investments may differ from values that would have been used had a liquid public market existed.

APPENDIX A: SUMMARY SCHEDULE^{1,2}

Asset Class		Market Value	Notional Value
Cash Equivalents and S-T Investments			
Cash and Equivalents	\$	1,588,182	-
Total Short Duration Cash		88,644	-
Total Fixed Income Cash		(90,509)	-
Total Public Equity Cash		491,074	-
Total Public Infrastructure Cash		4,264	-
Total Public Real Estate Cash		1,218	-
Total Alternatives Cash		111,402	-
Total Russell Overlay Cash		695,694	-
Total Cash and S-T Investments	\$	2,889,968	-
Short Duration Fixed Income Investments			
Short Duration Fixed Income Investments	\$	1,065,859	-
Total Short Duration	\$	1,065,859	-
Fixed Income Investments			
Core Fixed Income	\$	1,003,268	-
Emerging Market Debt		1,067,405	-
High Yield Bonds/Bank Loans		1,204,077	-
Total Fixed Income Investments	\$	3,274,749	-
Equity Investments			
Developed International Equity	\$	1,076,823	-
Emerging Markets Equity		2,008,273	-
Equity Options Strategy		1,388,616	-
Public Global Equity		5,236,501	-
US Equity		967,814	-
Total Equity	\$	10,678,027	-
Public Infrastructure			
Public Infrastructure	\$	794,088	-
Total Public Infrastructure	\$	794,088	-
Public Real Estate			
Public Real Estate	\$	429,511	-
Total Public Real Estate	\$	429,511	-
Alternatives			
Portable Alpha Hedge Funds		2,974,976	-
Private Debt		2,022,973	-
Private Equity		2,270,083	-
Private Real Estate		2,412,647	-
Private Infrastructure		146,909	-
Total Alternatives	\$	9,827,588	-
Global Tactical Asset Allocation			
GTAA	\$	2,404,366	-
Total GTAA	\$	2,404,366	-
Other Opportunistic			
Other Opportunistic	\$	572,652	-
Total Other Opportunistic	\$	572,652	-

¹Appendices A-J were created using data as of June 30, 2019 provided by the Custodian. All figures are in U.S. Dollars.

²Amounts expressed in thousands and thus may not add up to totals due to rounding.

RETIREMENT SYSTEM INVESTMENT COMMISSION

Asset Class	Market Value	Notional Value
Overlay		
Futures		
Developed International Equity	\$ 1,783	\$ 143,292
Equity Options Strategy	387	23,554
US Equity	21,055	1,313,881
Futures Total	\$ 23,225	\$ 1,480,726
Options		
Developed International Equity	\$ (102)	\$ 150,035
Equity Options Strategy	(5,038)	426,888
Options Total	\$ (5,141)	\$ 576,923
Total Return Swaps		
Core Fixed Income	\$ 8,114	\$ 923,613
Emerging Markets Equity	(9,193)	101,373
Public Global Equity	404	579,104
TIPS	1,077	615,675
US Equity	24,421	349,187
Total Return Swaps Total	\$ 24,823	\$ 2,568,952
Total Overlay	\$ 42,908	\$ 4,626,601
Total Investments	\$ 31,979,716	\$ 4,626,601

¹Appendices A-J were created using data as of June 30, 2019 provided by the Custodian. All figures are in U.S. Dollars.

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APPENDIX B: CASH AND EQUIVALENTS^{1,2}

Asset Class	Type	Cost	Market Value
CASH & CASH EQUIVALENTS			
General Assembly Combined	Cash	\$ 3,005	\$ 3,005
Judges Combined	Cash	5,275	5,275
National Guard Combined	Cash	3,847	3,847
Police Combined	Cash	45,166	45,166
Retirement Combined	Cash	143,959	143,959
SCRS - Internal	Cash	378,702	378,702
SCRS Liquidity 0-1	Cash	756,863	757,122
SCRS Residual Assets	Cash	-	-
Strategic Partnership	Cash	160,301	160,301
Strategic Partnership	Receivables	90,000	90,000
CASH & CASH EQUIVALENTS Total		\$ 1,587,118	\$ 1,587,377
CASH & CASH EQUIVALENTS Accrued			805
CASH & CASH EQUIVALENTS Net			\$ 1,588,182

Asset Class	Type	Cost	Market Value
SHORT DURATION			
Penn Ltd Term HY	Cash	\$ 4,304	\$ 4,304
Penn Ltd Term HY	Payables	(1,061)	(1,061)
Penn Ltd Term HY Total		3,243	3,243
SCRS Short Duration 1-3	Cash	85,001	85,262
SCRS Short Duration 1-3 Total		85,001	85,262
SHORT DURATION Total		\$ 88,243	\$ 88,504
SHORT DURATION Accrued			139
SHORT DURATION Net			\$ 88,644

Asset Class	Type	Cost	Market Value
FIXED INCOME			
Ashmore External Debt	Cash	\$ 8,778	\$ 8,777
Ashmore External Debt	Payables	(16,446)	(16,619)
Ashmore External Debt	Receivables	15,065	15,090
Ashmore External Debt Total		7,397	7,248
Barings US High Yield	Cash	2,632	2,632
Barings US High Yield	Payables	(1,888)	(1,888)
Barings US High Yield Total		745	745
Goldentree Credit	Cash	98,547	98,616
Goldentree Credit	Payables	(166,692)	(168,457)
Goldentree Credit	Receivables	154,944	154,944
Goldentree Credit Total		86,799	85,103
Guggenheim Partners	Cash	54,030	54,327
Guggenheim Partners	Payables	(84,272)	(84,872)
Guggenheim Partners	Receivables	79,256	80,064
Guggenheim Partners Total		49,014	49,519

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Asset Class	Type	Cost	Market Value
Pimco Core	Cash	2,628	2,738
Pimco Core	Payables	(1,253,607)	(1,254,292)
Pimco Core	Receivables	1,015,493	1,016,511
Pimco Core Total		(235,486)	(235,043)
Pinebridge Bank Loan	Cash	10,776	10,776
Pinebridge Bank Loan	Payables	(11,764)	(11,764)
Pinebridge Bank Loan	Receivables	2,775	2,775
Pinebridge Bank Loan Total		1,786	1,786
SCRS Fixed Income	Cash	0	0
SCRS Fixed Income Total		0	0
FIXED INCOME Total		\$ (89,745)	\$ (90,642)
FIXED INCOME Accrued			133
FIXED INCOME Net			\$ (90,509)

Asset Class	Type	Cost	Market Value
PUBLIC EQUITY			
Algert Glb ISCP	Cash	\$ 1,293	\$ 1,293
Algert Glb ISCP	Payables	(7,186)	(7,189)
Algert Glb ISCP	Receivables	6,889	6,891
Algert Glb ISCP Total		996	995
AQR Global Enhanced	Cash	8,304	8,308
AQR Global Enhanced	Payables	(792)	(793)
AQR Global Enhanced	Receivables	792	792
AQR Global Enhanced Total		8,304	8,308
Blackrock EME	Payables	(0)	(0)
Blackrock EME Total		(0)	(0)
Blackrock EME SM Cap	Payables	(5)	(5)
Blackrock EME SM Cap Total		(5)	(5)
De Shaw World Enhanced	Cash	1,613	1,614
De Shaw World Enhanced	Payables	(8,438)	(8,439)
De Shaw World Enhanced	Receivables	8,081	8,082
De Shaw World Enhanced Total		1,257	1,257
Intech Global Eq Sma	Cash	6,492	6,492
Intech Global Eq Sma	Payables	(86,412)	(86,471)
Intech Global Eq Sma	Receivables	86,163	86,223
Intech Global Eq Sma Total		6,242	6,244
Integrity Small V	Cash	8,369	8,369
Integrity Small V	Payables	(12,519)	(12,519)

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Asset Class	Type	Cost	Market Value
Integrity Small V	Receivables	17,226	17,226
Integrity Small V Total		13,077	13,077
Johnston	Receivables	-	-
Johnston Total		-	-
Man Numeric ISCP	Cash	3,524	3,537
Man Numeric ISCP	Payables	(4,004)	(4,006)
Man Numeric ISCP	Receivables	3,906	3,908
Man Numeric ISCP Total		3,426	3,439
Pyramis Small C	Cash	8,776	8,776
Pyramis Small C	Payables	(4,993)	(4,993)
Pyramis Small C	Receivables	2,370	2,370
Pyramis Small C Total		6,153	6,153
Russel Int Small Cap Transition	Cash	447	450
Russel Int Small Cap Transition	Payables	(590)	(591)
Russel Int Small Cap Transition	Receivables	754	754
Russel Int Small Cap Transition Total		611	614
Russell Options	Cash	431,148	433,181
Russell Options	Payables	(8,230)	(8,230)
Russell Options	Receivables	8,230	8,230
Russell Options Total		431,148	433,181
Russell SM/MID CAP Transition	Cash	-	-
Russell SM/MID CAP Transition Total		-	-
Timesquare Smid G	Cash	6,441	6,441
Timesquare Smid G	Payables	(2,617)	(2,617)
Timesquare Smid G	Receivables	5,049	5,049
Timesquare Smid G Total		8,873	8,873
PUBLIC EQUITY Total		\$ 480,083	\$ 482,134
PUBLIC EQUITY Accrued			8,940
PUBLIC EQUITY Net			\$ 491,074

Asset Class	Type	Cost	Market Value
INFRASTRUCTURE			
Deutsche Infrastructure	Cash	\$ 3,013	\$ 3,018
Deutsche Infrastructure	Payables	(4,664)	(4,669)
Deutsche Infrastructure	Receivables	3,485	3,492
Deutsche Infrastructure Total		1,835	1,841
Russell Global Equity Transition	Cash	\$ 1,742	\$ 1,742
Russell Global Equity Transition	Receivables	-	-

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Asset Class	Type	Cost	Market Value
Russell Global Equity Transition Total		1,742	1,742
INFRASTRUCTURE Total		\$ 3,576	\$ 3,583
INFRASTRUCTURE Accrued			681
INFRASTRUCTURE Net		\$	4,264

Asset Class	Type	Cost	Market Value
PUBLIC REAL ESTATE			
Centersquare US Real Estate	Cash	\$ 396	\$ 396
Centersquare US Real Estate	Payables	(359)	(359)
Centersquare US Real Estate	Receivables	369	369
Centersquare US Real Estate Total		406	406
CenterSquare US REIT Focused	Cash	\$ 799	\$ 799
CenterSquare US REIT Focused	Payables	(2,745)	(2,745)
CenterSquare US REIT Focused	Receivables	2,747	2,747
CenterSquare US REIT Focused Total		801	801
PUBLIC REAL ESTATE Total		\$ 1,207	\$ 1,207
PUBLIC REAL ESTATE Accrued			11
PUBLIC REAL ESTATE Net		\$	1,218

Asset Class	Type	Cost	Market Value
ALTERNATIVE			
BC European Capital IX	Cash	\$ (0)	\$ (0)
BC European Capital IX Total		(0)	(0)
Blackstone SAF II Lp	Receivables	80,171	80,171
Blackstone SAF II Lp Total		80,171	80,171
Bridgepoint Europe	Cash	(0)	(0)
Bridgepoint Europe Total		(0)	(0)
BW PA II - Low Beta HF	Cash	0	0
BW PA II - Low Beta HF Total		0	0
Macquarie Infrastructure Fund	Cash	(0)	(0)
Macquarie Infrastructure Fund Total		(0)	(0)
Pantheon Europe V	Cash	(0)	(0)
Pantheon Europe V Total		(0)	(0)
Res Sp - Low Beta HF	Receivables	30,940	30,940
Res Sp - Low Beta HF Total		30,940	30,940

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Asset Class	Type	Cost	Market Value
Russell Other Opportunistic	Cash	291	291
Russell Other Opportunistic Total		291	291
ALTERNATIVE Total		\$ 111,402	\$ 111,402
ALTERNATIVE Accrued			0
ALTERNATIVE Net			\$ 111,402
OVERLAY			
Russell - Overlay	Cash	\$ 498,858	\$ 498,898
Russell - Overlay	Payables	(382,855)	(382,855)
Russell - Overlay	Receivables	577,289	578,114
Russell - Overlay Total		693,292	694,157
OVERLAY Total		\$ 693,292	694,157
OVERLAY Accrued			1,537
OVERLAY Net			\$ 695,694
Total Cash and Short Term Investments		\$ 2,875,177	\$ 2,889,968

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APPENDIX C: SHORT DURATION^{1,2}

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
Short Duration						
ADT SECURITY CORP/THE	\$ 101.50	5.25	3/15/2020	2,193	\$ 2,314	2,226
ADT SECURITY CORP/THE	105.75	6.25	10/15/2021	1,785	1,878	1,888
AIR CANADA 144A	107.80	7.75	4/15/2021	2,138	2,306	2,305
AIRCASTLE LTD	101.41	6.25	12/1/2019	1,075	1,175	1,090
AIRCASTLE LTD	103.66	7.63	4/15/2020	3,430	3,877	3,555
AK STEEL CORP	98.50	7.63	10/1/2021	1,028	1,038	1,013
ALABAMA POWER CO	100.44	2.45	3/30/2022	3,750	3,757	3,766
ALLEGHENY TECHNOLOGIES INC	102.75	5.95	1/15/2021	520	534	534
ALLY FINANCIAL INC	100.20	3.75	11/18/2019	3,480	3,538	3,487
ALLY FINANCIAL INC	103.58	8.00	3/15/2020	3,027	3,236	3,135
ALLY FINANCIAL INC	105.25	7.50	9/15/2020	530	558	558
AMERICAN AIRLINES GROUP I 144A	100.45	5.50	10/1/2019	1,621	1,672	1,628
AMERICAN AIRLINES GROUP I 144A	103.03	5.00	6/1/2022	955	972	984
AMERICAN HONDA FINANCE CORP	98.85	1.70	9/9/2021	6,250	6,030	6,178
AMERICAN HONDA FINANCE CORP	98.92	1.65	7/12/2021	12,994	12,621	12,854
ANIXTER INC	103.63	5.13	10/1/2021	1,405	1,442	1,456
ARCELORMITTAL	102.30	5.13	6/1/2020	1,325	1,391	1,356
ARCONIC INC	103.50	6.15	8/15/2020	2,425	2,578	2,510
BALL CORP	102.20	4.38	12/15/2020	2,520	2,599	2,575
BALL CORP	105.13	5.00	3/15/2022	497	524	522
BANK OF AMERICA CORP	99.88	2.33	10/1/2021	9,000	8,934	8,989
BANK OF AMERICA CORP	99.89	2.37	7/21/2021	24,200	23,976	24,174
BANK OF AMERICA CORP	100.45	2.74	1/23/2022	6,355	6,301	6,384
BERRY PLASTICS 5/18 COV-LITE	99.63	0.23	1/6/2021	2,250	2,247	2,242
BRIGGS & STRATTON CORP	104.00	6.88	12/15/2020	1,310	1,357	1,362
CABLEVISION SYSTEMS CORP	103.28	8.00	4/15/2020	3,198	3,385	3,303
CENTENE CORP	101.88	5.63	2/15/2021	1,880	1,910	1,915
CENTURYLINK INC	101.13	5.63	4/1/2020	2,215	2,243	2,240
CENTURYLINK INC	105.75	6.45	6/15/2021	1,985	2,065	2,099
CF INDUSTRIES INC	103.25	7.13	5/1/2020	1,710	1,866	1,766
CHARTER COMMUNICATIONS OPERATI	100.90	3.58	7/23/2020	2,051	2,051	2,069
CHOICE HOTELS INTERNATIONAL IN	102.88	5.70	8/28/2020	850	880	874
CIT GROUP INC	101.91	4.13	3/9/2021	2,835	2,846	2,889
CITIBANK NA	100.13	3.12	5/20/2022	13,500	13,520	13,517
CITIBANK NA	102.13	3.40	7/23/2021	8,000	7,982	8,170
CNH INDUSTRIAL CAPITAL LLC	100.02	3.38	7/15/2019	1,645	1,664	1,645
COGENT COMMUNICATIONS GRO 144A	101.38	5.63	4/15/2021	1,045	1,058	1,059
COGENT COMMUNICATIONS GRO 144A	103.50	5.38	3/1/2022	1,000	1,028	1,035
COMCAST CORP	102.89	3.45	10/1/2021	4,650	4,677	4,784
COMMSCOPE INC 144A	99.75	5.00	6/15/2021	630	633	628
COOPER TIRE & RUBBER CO	101.75	8.00	12/15/2019	284	293	289
CORECIVIC INC	99.25	4.13	4/1/2020	1,000	1,001	993
CSC HOLDINGS LLC	107.00	6.75	11/15/2021	1,925	2,037	2,060
CYPRESS SEMICONDUCTOR 5/16 TL	99.94	0.01	7/5/2021	1,296	1,300	1,295
DAE FUNDING LLC 144A	100.00	4.00	8/1/2020	3,095	3,078	3,095
DAVITA 6/14 TLB	99.81	0.01	6/24/2021	1,786	1,786	1,783
DELL 9/17 TLA2	99.78	0.01	9/7/2021	1,033	1,029	1,031
DELPHI 3/13 TLA	98.75	-	8/17/2021	852	852	842
DISH DBS CORP	100.38	7.88	9/1/2019	2,830	3,152	2,841
DISH DBS CORP	100.50	5.13	5/1/2020	1,535	1,573	1,543
DISH DBS CORP	104.88	6.75	6/1/2021	1,520	1,555	1,594
DPL INC	107.50	7.25	10/15/2021	713	761	766

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Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
EDGEWELL PERSONAL CARE CO	101.00	4.70	5/24/2022	520	527	525
EDGEWELL PERSONAL CARE CO	101.75	4.70	5/19/2021	1,765	1,790	1,796
EMC CORP	99.45	2.65	6/1/2020	2,963	2,914	2,947
ENERGY TRANSFER OPERATING LP	106.07	7.50	10/15/2020	2,815	3,007	2,986
FEDERAL FARM CR BK CONS BD	100.00	2.34	6/13/2022	10,000	9,994	10,000
FEDERAL FARM CR BK CONS BD	100.02	2.63	4/18/2022	17,900	17,891	17,903
FEDERAL FARM CR BK CONS BD	100.04	2.57	5/16/2022	10,000	10,000	10,004
FEDERAL FARM CR BK CONS BD	100.04	2.44	11/23/2020	20,000	20,000	20,009
FEDERAL FARM CR BK CONS BD	100.32	2.96	10/23/2020	10,000	10,000	10,032
FEDERAL FARM CR BK CONS BD	100.33	2.37	6/10/2022	14,500	14,510	14,548
FEDERAL FARM CR BK CONS BD	100.33	2.80	1/24/2022	11,000	11,000	11,037
FEDERAL FARM CR BK CONS BD	100.39	2.44	4/9/2021	22,000	22,000	22,086
FEDERAL FARM CR BK CONS BD	100.44	2.58	2/19/2021	7,500	7,500	7,533
FEDERAL HOME LN BK CONS BD	100.00	2.60	1/5/2021	22,375	22,375	22,375
FEDERAL HOME LN BK CONS BD	100.03	2.65	5/23/2022	10,000	10,000	10,003
FEDERAL HOME LN BK CONS BD	100.04	2.50	10/9/2020	10,000	10,002	10,004
FEDERAL HOME LN BK CONS BD	100.04	2.70	5/16/2022	21,000	21,000	21,009
FEDERAL HOME LN BK CONS BD	100.05	2.90	7/30/2021	10,000	10,000	10,005
FEDERAL HOME LN BK CONS BD	100.06	2.60	4/16/2021	18,500	18,510	18,511
FEDERAL HOME LN BK CONS BD	100.09	2.60	12/11/2020	10,000	10,000	10,009
FEDERAL HOME LN BK CONS BD	100.12	2.68	6/11/2021	13,000	13,000	13,016
FEDERAL HOME LN BK CONS BD	100.15	2.65	3/26/2021	15,000	14,993	15,022
FEDERAL HOME LN BK CONS BD	100.15	2.50	1/8/2021	10,000	10,000	10,015
FEDERAL HOME LN BK CONS BD	100.17	2.70	4/29/2022	23,000	23,000	23,039
FEDERAL HOME LN BK CONS BD	100.17	2.54	1/29/2021	10,000	10,000	10,017
FEDERAL HOME LN BK CONS BD	100.17	2.63	5/6/2022	10,000	10,000	10,017
FEDERAL HOME LN BK CONS BD	100.32	3.00	11/27/2020	12,000	12,000	12,039
FEDERAL HOME LN BK CONS BD	100.32	3.17	10/25/2021	10,000	10,000	10,032
FIAT CHRYSLER AUTOMOBILES NV	101.12	4.50	4/15/2020	4,015	4,120	4,060
FOOT LOCKER INC	111.00	8.50	1/15/2022	1,144	1,271	1,270
FORD MOTOR CREDIT CO LLC	105.45	5.88	8/2/2021	949	988	1,001
FREEMONT-MCMORAN INC	100.38	3.55	3/1/2022	2,000	1,983	2,008
GENERAL MOTORS FINANCIAL CO IN	100.20	3.15	1/15/2020	1,305	1,313	1,308
GENWORTH HOLDINGS INC	100.25	7.70	6/15/2020	495	505	496
GEO GROUP INC/THE	97.75	5.88	1/15/2022	631	626	617
GILEAD SCIENCES INC	103.44	4.50	4/1/2021	5,450	5,580	5,637
GILEAD SCIENCES INC	104.61	4.40	12/1/2021	3,375	3,490	3,531
GLP CAPITAL LP / GLP FINANCING	101.74	4.88	11/1/2020	1,640	1,719	1,668
GLP CAPITAL LP / GLP FINANCING	101.74	4.38	4/15/2021	525	531	534
GOODYEAR TIRE & RUBBER CO/THE	105.25	8.75	8/15/2020	2,215	2,599	2,331
GRIFFON CORP	99.50	5.25	3/1/2022	1,376	1,364	1,369
HARLEY-DAVIDSON FINANCIAL 144A	100.20	2.85	1/15/2021	7,651	7,524	7,666
HARLEY-DAVIDSON FINANCIAL 144A	103.30	4.05	2/4/2022	12,900	13,205	13,326
HCA HEALTHCARE INC	104.75	6.25	2/15/2021	1,415	1,495	1,482
HCA INC	102.30	6.50	2/15/2020	2,840	3,096	2,905
HCA INC	110.25	7.50	2/15/2022	1,850	2,030	2,040
HERTZ CORP/THE	100.13	5.88	10/15/2020	1,060	1,058	1,061
HERTZ CORP/THE	100.13	7.38	1/15/2021	1,155	1,158	1,156
HUGHES SATELLITE SYSTEMS CORP	107.00	7.63	6/15/2021	3,104	3,332	3,321
IBM CREDIT LLC	103.13	3.60	11/30/2021	17,525	17,555	18,073
ICAHN ENTERPRISES LP / ICAHN E	100.15	6.00	8/1/2020	3,160	3,229	3,165
ICAHN ENTERPRISES LP / ICAHN E	102.38	6.25	2/1/2022	1,440	1,485	1,474
INFOR (LAWSON) 2/17 (USD) B6	99.68	0.01	2/1/2022	874	871	871

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
INTERNATIONAL BUSINESS MACHINE	99.98	2.25	2/19/2021	5,400	5,286	5,399
INTERNATIONAL BUSINESS MACHINE	100.66	2.50	1/27/2022	16,300	16,085	16,407
INTERNATIONAL LEASE FINANCE CO	114.06	8.63	1/15/2022	1,019	1,158	1,162
ION MEDIA 5/17 TL	99.75	0.01	12/18/2020	725	723	723
ISTAR INC	100.88	4.63	9/15/2020	1,030	1,032	1,039
ISTAR INC	102.50	6.00	4/1/2022	895	910	917
JACK OHIO FINANCE LLC / J 144A	102.72	6.75	11/15/2021	1,405	1,446	1,443
JACKSON NATIONAL LIFE GLO 144A	99.95	2.25	4/29/2021	2,165	2,104	2,164
JACKSON NATIONAL LIFE GLO 144A	101.81	3.30	6/11/2021	3,300	3,294	3,360
JMC STEEL 6/16 COV-LITE TLB	99.71	0.01	6/14/2021	1,350	1,341	1,346
JOHN DEERE CAPITAL CORP	100.00	2.90	3/7/2022	6,000	6,004	6,000
JPMORGAN CHASE & CO	99.85	2.30	8/15/2021	3,000	2,986	2,996
JPMORGAN CHASE & CO	100.25	2.55	10/29/2020	5,500	5,525	5,513
JPMORGAN CHASE & CO	100.40	2.75	6/23/2020	4,000	4,085	4,016
JPMORGAN CHASE & CO	104.02	4.35	8/15/2021	4,000	4,087	4,161
JPMORGAN CHASE BANK NA	100.11	2.60	2/1/2021	11,480	11,465	11,493
KAR AUCTION 5/17 TLB4	99.75	0.01	3/11/2021	230	229	229
KB HOME	103.27	8.00	3/15/2020	3,947	4,299	4,076
KINETIC CONCEPTS INC / KC 144A	102.52	7.88	2/15/2021	700	726	718
L BRANDS INC	104.51	5.63	2/15/2022	985	1,015	1,029
LENNAR CORP	99.50	2.95	11/29/2020	1,450	1,444	1,443
LENNAR CORP	100.38	4.50	11/15/2019	1,275	1,324	1,280
LENNAR CORP	107.50	8.38	1/15/2021	1,443	1,579	1,551
LEVEL 3 FINANCING INC	100.50	6.13	1/15/2021	845	858	849
MATTEL INC	96.50	2.35	8/15/2021	1,070	1,030	1,033
MERITAGE HOMES CORP	103.00	7.15	4/15/2020	2,097	2,293	2,160
METHANEX CORP	100.11	3.25	12/15/2019	1,420	1,419	1,421
METHANEX CORP	104.18	5.25	3/1/2022	263	274	274
MGM RESORTS INTERNATIONAL	111.50	7.75	3/15/2022	1,000	1,105	1,115
MIDCONTINENT EXPRESS PIPE 144A	100.47	6.70	9/15/2019	1,769	1,827	1,777
NATIONAL CINEMEDIA LLC	101.00	6.00	4/15/2022	2,612	2,643	2,638
NAVIENT CORP	103.50	8.00	3/25/2020	1,992	2,124	2,062
NAVIENT CORP	107.88	7.25	1/25/2022	705	760	761
NBCUNIVERSAL ENTERPRISE I 144A	100.21	2.99	4/1/2021	25,225	25,205	25,278
NCR CORP	100.25	4.63	2/15/2021	2,092	2,079	2,097
NETFLIX INC	103.38	5.38	2/1/2021	1,175	1,222	1,215
NETFLIX INC	105.13	5.50	2/15/2022	975	1,026	1,025
NIELSEN FINANCE LLC / NIE 144A	99.75	5.00	4/15/2022	741	737	739
NISSAN MOTOR ACCEPTANCE C 144A	99.45	2.15	9/28/2020	5,000	4,971	4,972
NISSAN MOTOR ACCEPTANCE C 144A	99.59	2.15	7/13/2020	4,665	4,611	4,646
NISSAN MOTOR ACCEPTANCE C 144A	99.69	2.55	3/8/2021	16,700	16,319	16,649
NORTHERN NATURAL GAS CO 144A	103.06	4.25	6/1/2021	4,000	4,106	4,123
NXP BV / NXP FUNDING LLC 144A	102.31	4.13	6/1/2021	1,650	1,651	1,688
ORACLE CORP	99.49	1.90	9/15/2021	4,500	4,402	4,477
PEABODY ENERGY CORP 144A	102.38	6.00	3/31/2022	1,130	1,147	1,157
PENSKE AUTOMOTIVE GROUP INC	100.00	3.75	8/15/2020	1,320	1,320	1,320
PPG INDUSTRIES INC	101.79	3.60	11/15/2020	8,900	8,978	9,059
PRESTIGE BRANDS INC 144A	100.50	5.38	12/15/2021	850	856	854
PROTECTIVE LIFE GLOBAL FU 144A	100.57	2.70	11/25/2020	13,000	12,816	13,074
QUALCOMM INC	101.86	3.00	5/20/2022	4,700	4,759	4,787
REALOGY GROUP LLC / REALO 144A	96.00	5.25	12/1/2021	1,030	1,042	989
REYNOLDS GROUP ISSUER INC / RE	100.25	5.75	10/15/2020	2,457	2,484	2,463
RHP HOTEL PROPERTIES LP / RHP	99.88	5.00	4/15/2021	575	581	574

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ROCKIES EXPRESS PIPELINE 144A	101.63	5.63	4/15/2020	2,405	2,463	2,444
SAN DIEGO GAS & ELECTRIC CO	101.29	3.00	8/15/2021	10,000	10,033	10,129
SC STRATEGIC PARTNER SHORT	1.00			13,299	13,299	13,299
SEALED AIR CORP 144A	103.50	6.50	12/1/2020	983	1,025	1,017
SELECT MEDICAL CORP	100.14	6.38	6/1/2021	4,675	4,726	4,681
SPRINGLEAF FINANCE CORP	107.38	8.25	12/15/2020	1,805	1,982	1,938
SPRINT COMMUNICATIONS INC	103.63	7.00	8/15/2020	4,355	4,707	4,513
SPRINT CORP	106.25	7.25	9/15/2021	1,000	1,059	1,063
STARWOOD PROPERTY TRUST INC	99.75	3.63	2/1/2021	1,455	1,447	1,451
SYMANTEC CORP	101.57	4.20	9/15/2020	1,435	1,484	1,458
TECK RESOURCES LTD	101.81	4.50	1/15/2021	625	643	636
TENET HEALTHCARE CORP	101.00	4.75	6/1/2020	3,665	3,796	3,702
TENET HEALTHCARE CORP	101.63	4.50	4/1/2021	755	759	767
TENET HEALTHCARE CORP	102.94	6.00	10/1/2020	475	492	489
TEVA PHARMACEUTICAL FINANCE IV	99.13	2.25	3/18/2020	1,285	1,256	1,274
TEVA PHARMACEUTICAL FINANCE NE	94.88	2.20	7/21/2021	1,010	962	958
TOLL BROTHERS FINANCE CORP	100.85	6.75	11/1/2019	548	599	553
TOYOTA MOTOR CREDIT CORP	101.38	2.95	4/13/2021	4,250	4,237	4,308
TOYOTA MOTOR CREDIT CORP	103.13	4.25	1/11/2021	6,000	6,158	6,188
TREEHOUSE FOODS INC	100.63	4.88	3/15/2022	1,096	1,106	1,103
U S TREASURY NOTE	99.40	1.38	9/15/2020	5,250	5,229	5,218
U S TREASURY NOTE	99.68	1.63	10/15/2020	14,750	14,723	14,703
U S TREASURY NOTE	100.97	2.50	12/31/2020	75,000	74,871	75,727
U S TREASURY NOTE	101.05	2.50	1/31/2021	50,000	49,920	50,524
UNITED AIRLINES HOLDINGS INC	104.00	6.00	12/1/2020	1,419	1,516	1,476
UNITEDHEALTH GROUP INC	101.61	3.88	10/15/2020	4,625	4,730	4,700
UNITEDHEALTH GROUP INC	101.78	3.15	6/15/2021	7,500	7,485	7,634
VFH PARENT LLC / ORCHESTR 144A	103.62	6.75	6/15/2022	750	777	777
VIRGIN MEDIA SECURED FINANCE P	104.28	5.25	1/15/2021	800	822	834
WELLS FARGO & CO	100.22	2.50	3/4/2021	7,860	7,704	7,877
WELLS FARGO & CO	100.59	3.47	2/11/2022	10,000	10,089	10,059
WELLS FARGO & CO	101.21	3.61	7/26/2021	11,750	11,922	11,892
WELLS FARGO & CO	102.89	3.50	3/8/2022	4,000	4,106	4,116
WELLS FARGO BANK NA	102.83	3.63	10/22/2021	12,500	12,664	12,853
WISDOMTREE INVESTMENTS 1/18	98.25	0.07	1/29/2021	1,375	1,372	1,351
WR GRACE & CO-CONN 144A	103.75	5.13	10/1/2021	2,036	2,079	2,112
WYNDHAM DESTINATIONS INC	101.50	4.25	3/1/2022	2,215	2,219	2,248
WYNDHAM DESTINATIONS INC	103.25	5.63	3/1/2021	1,510	1,547	1,559
WYNN AMERICA 4/17 TLA	98.50	-	12/31/2021	1,000	998	985
XEROX CORP	102.09	4.50	5/15/2021	1,530	1,548	1,562
ZAYO 1/17 COV-LITE 4-YEAR TLB1	99.89	0.01	1/19/2021	1,347	1,345	1,345
Short Duration				1,047,452	\$ 1,053,905	\$ 1,057,047
Short Duration Receivables						8,812
Total Short Duration						\$ 1,065,859

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APPENDIX D: FIXED INCOME^{1,2}

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
Core Fixed Income						
ACCREDITED MORTGAGE LOAN 4 A2D	100.20	3.19	1/25/2035	1,700	\$ 1,709	1,704
ADAMS MILL CLO LTD 1A A1R 144A	100.06	3.70	7/15/2026	1,104	1,104	1,104
AIA GROUP LTD REGS	102.03	3.13	3/13/2023	2,000	2,034	2,041
ALLERGAN FINANCE LLC	101.24	3.25	10/1/2022	1,100	1,102	1,114
ALLERGAN FUNDING SCS	102.10	3.45	3/15/2022	3,600	3,631	3,676
ALLY AUTO RECEIVABLES TRU 3 A2	100.07	2.72	5/17/2021	1,151	1,151	1,151
ALLY MASTER OWNER TRUST 3 A	100.03	2.71	7/15/2022	1,400	1,400	1,400
AMERICAN EXPRESS CO	101.89	3.38	5/17/2021	1,700	1,700	1,732
AMERICAN HOMES 4 RENT LP	103.63	4.25	2/15/2028	1,600	1,591	1,658
AMERICAN TOWER CORP	102.87	3.38	5/15/2024	2,200	2,193	2,263
AMERICAN WATER CAPITAL CORP	103.97	3.45	6/1/2029	500	499	520
AMERICREDIT AUTOMOBILE R 1 A2B	99.99	2.61	7/19/2021	488	488	488
ANDEAVOR LOGISTICS LP / TESORO	100.47	5.50	10/15/2019	1,100	1,152	1,105
AT&T INC	100.25	3.25	1/15/2020	500	500	501
AT&T INC	100.50	3.27	6/1/2021	2,000	2,000	2,010
AT&T INC	100.87	3.55	7/15/2021	2,300	2,300	2,320
AT&T INC	107.71	4.35	3/1/2029	1,800	1,791	1,939
AURIUM CLO II DAC 2A AR 144A	113.59	0.68	10/13/2029	900	1,047	1,022
AUST 3YR BOND FUTURE (SFE)	69.53	-	9/16/2019	(0)	-	(4)
AUSTRALIAN 10YR BOND FUTURE	69.25	-	9/16/2019	(0)	-	(194)
AVALONBAY COMMUNITIES INC	104.84	3.45	6/1/2025	3,200	3,194	3,355
AVANGRID INC	101.96	3.15	12/1/2024	1,700	1,702	1,733
AVERY POINT III CLO 3A AR 144A	100.11	3.72	1/18/2025	603	603	604
BANC OF AMERICA FUNDING A 1A1	99.82	4.75	2/20/2036	167	148	167
BANK OF AMERICA CORP	100.10	3.27	3/5/2024	900	894	901
BANK OF AMERICA CORP	101.05	2.88	4/24/2023	2,800	2,800	2,829
BANK OF AMERICA CORP	103.08	3.30	1/11/2023	2,400	2,404	2,474
BANK OF AMERICA CORP	106.95	4.13	1/22/2024	5,200	5,450	5,562
BANK OF NOVA SCOTIA/THE	99.66	1.88	4/26/2021	2,700	2,686	2,691
BARCLAYS BANK PLC	109.19	7.63	11/21/2022	4,200	4,579	4,586
BARCLAYS PLC	101.31	3.68	1/10/2023	2,700	2,700	2,735
BARCLAYS PLC	102.20	4.66	8/10/2021	2,200	2,222	2,248
BARCLAYS PLC	103.29	4.34	5/16/2024	1,700	1,690	1,756
BAT CAPITAL CORP	100.15	2.76	8/15/2022	300	289	300
BAYER US FINANCE II LLC 144A	98.20	3.62	12/15/2023	2,100	2,100	2,062
BEAR STEARNS ARM TRUST 1 12A5	101.92	4.68	4/25/2034	745	740	759
BEAR STEARNS ARM TRUST 10 15A1	102.46	4.68	1/25/2035	208	205	213
BEAR STEARNS ARM TRUST 2 8 1A1	97.66	5.02	1/25/2034	3	3	3
BEAR STEARNS ARM TRUST 2 9 2A1	103.10	4.68	2/25/2034	895	883	922
BEAR STEARNS ASSET BACK SD2 A1	99.87	2.87	6/25/2036	38	26	38
BNP PARIBAS SA 144A	102.87	3.50	3/1/2023	1,700	1,696	1,749
BROADCOM CORP / BROADCOM CAYM	99.13	2.20	1/15/2021	1,500	1,460	1,487
BROADCOM CORP / BROADCOM CAYM	100.26	3.00	1/15/2022	2,000	1,955	2,005
CAN 10YR BOND FUTURE (MSE)	109.38	-	9/19/2019	(0)	-	(8)
CARLYLE FINANCE LLC 144A	108.61	5.65	9/15/2048	2,700	2,698	2,932
CCP CDX SP UL CDX.NA.IG.28	1.91	1.00	6/20/2022	1,600	30	30
CCP CDX.SP UL CDX.NA.IG.31 R1%	2.26	1.00	12/20/2023	8,900	132	201
CCP_CDS. SP UL BERKSHIRE HATHA	1.96	1.00	12/20/2021	1,600	9	31
CCP_CDS. SP UL CITIGROUP INC.	1.10	1.00	12/20/2020	5,500	104	61
CCP_CDS. SP UL SIMON PROPERTY	2.21	1.00	6/20/2022	3,300	11	73
CCP_CDS._SP UL BERKSHIRE HATHA	-	-	12/20/2021	(1,600)	(0)	-
CCP_CDS._SP UL CITIGROUP INC.	-	-	12/20/2020	(5,500)	(0)	-
CCP_CDS._SP UL SIMON PROPERTY	-	-	6/20/2022	(3,300)	(0)	-
CCP_CD X SP UL CDX.NA.IG.28	-	-	6/20/2022	(1,600)	-	-

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CCP_CDX. SP UL CDX.NA.IG.30 CM	2.21	1.00	6/20/2023	1,000	17	22
CCP_CDX. SP UL CDX.NA.IG.32 CM	2.16	1.00	6/20/2024	23,300	427	503
CCP_CDX. SP UL CDX.NA.IG.30 CM	-	-	6/20/2023	(1,000)	-	-
CCP_CDX. SP UL CDX.NA.IG.32 CM	-	-	6/20/2024	(23,300)	(0)	-
CCP_CDX.SP UL CDX.NA.IG.31 R1%	-	-	12/20/2023	(8,900)	(0)	-
CCP_IRS. P EUR-EURIBOR-REUTERS	3.05	0.50	12/18/2029	4,500	85	137
CCP_IRS. P EUR-EURIBOR-REUTERS	6.31	0.75	9/18/2029	5,300	46	334
CCP_IRS. P EUR-EURIBOR-REUTERS	16.72	1.25	9/18/2049	2,700	20	452
CCP_IRS. P EUR-EURIBOR-REUTERS	20.47	1.50	7/4/2042	6,300	0	1,290
CCP_IRS. P USD-LIBOR-BBA 3M CM	4.23	2.80	8/22/2023	15,800	0	668
CCP_IRS. R CAD-BA-CDOR 3M CME	5.81	0.90	12/16/2046	700	0	41
CCP_IRS. R GBP-LIBOR-BBA 6M CM	(5.39)	0.01	9/18/2029	4,300	0	(232)
CCP_IRS. R GBP-LIBOR-BBA 6M CM	(2.12)	0.01	9/18/2024	13,700	31	(290)
CCP_IRS. R GBP-LIBOR-BBA 6M CM	(0.08)	0.01	12/18/2049	5,700	0	(4)
CCP_IRS. R GBP-LIBOR-BBA 6M CM	0.88	0.01	12/18/2029	2,400	11	21
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.16)	0.00	3/21/2048	160,000	0	(259)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.09)	0.01	3/20/2038	1,190,000	96	(1,014)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.04)	0.01	3/20/2029	310,000	0	(124)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.03)	0.01	6/18/2028	310,000	0	(108)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.03)	0.01	3/20/2028	760,000	55	(200)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.03)	0.01	9/20/2027	920,000	21	(240)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.00)	0.01	3/22/2021	13,040,000	0	(394)
CCP_IRS. R JPY-LIBOR-BBA 6M CM	(0.00)	(0.01)	12/20/2019	2,450,000	0	(28)
CCP_IRS. R USD-LIBOR-BBA 3M CM	(15.72)	2.52	8/22/2048	1,600	0	(252)
CCP_IRS. R USD-LIBOR-BBA 3M CM	(14.95)	2.52	8/22/2048	4,900	0	(732)
CCP_IRS. R USD-LIBOR-BBA 3M CM	(4.68)	2.39	12/20/2027	2,600	83	(122)
CCP_IRS. R USD-LIBOR-BBA 3M CM	(2.80)	2.39	6/20/2028	12,200	712	(341)
CCP_IRS. R USD-LIBOR-BBA 3M CM	(0.24)	2.47	12/6/2020	56,300	0	(135)
CCP_IRS. P EUR-EURIBOR-REUTERS	-	(0.26)	12/18/2029	(4,500)	(0)	-
CCP_IRS. P EUR-EURIBOR-REUTERS	-	(0.24)	7/4/2042	(6,300)	(0)	-
CCP_IRS. P EUR-EURIBOR-REUTERS	-	(0.23)	9/18/2029	(5,300)	(0)	-
CCP_IRS. P EUR-EURIBOR-REUTERS	-	(0.23)	9/18/2049	(2,700)	(0)	-
CCP_IRS. P USD-LIBOR-BBA 3M CM	-	2.52	8/22/2023	(15,800)	(0)	-
CCP_IRS. R CAD-BA-CDOR 3M CME	-	1.75	12/16/2046	(700)	(9)	-
CCP_IRS. R GBP-LIBOR-BBA 6M CM	-	1.00	12/18/2029	(2,400)	(0)	-
CCP_IRS. R GBP-LIBOR-BBA 6M CM	-	1.25	9/18/2024	(13,700)	(0)	-
CCP_IRS. R GBP-LIBOR-BBA 6M CM	-	1.25	12/18/2049	(5,700)	(120)	-
CCP_IRS. R GBP-LIBOR-BBA 6M CM	-	1.50	9/18/2029	(4,300)	(30)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.10	3/22/2021	(13,040,000)	(260)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.25	12/20/2019	(2,450,000)	(43)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.30	9/20/2027	(920,000)	(16)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.30	3/20/2028	(760,000)	(0)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.40	6/18/2028	(310,000)	(0)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.45	3/20/2029	(310,000)	(23)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	0.75	3/20/2038	(1,190,000)	(0)	-
CCP_IRS. R JPY-LIBOR-BBA 6M CM	-	1.00	3/21/2048	(160,000)	(5)	-
CCP_IRS. R USD-LIBOR-BBA 3M CM	-	2.00	12/6/2020	(56,300)	-	-
CCP_IRS. R USD-LIBOR-BBA 3M CM	-	2.25	6/20/2028	(12,200)	(0)	-
CCP_IRS. R USD-LIBOR-BBA 3M CM	-	2.50	12/20/2027	(2,600)	-	-
CCP_IRS. R USD-LIBOR-BBA 3M CM	-	2.91	8/22/2048	(4,900)	(0)	-
CCP_IRS. R USD-LIBOR-BBA 3M CM	-	2.94	8/22/2048	(1,600)	(0)	-
CD 2016-CD2 MORTGAGE T CD2 ASB	104.14	3.35	11/10/2049	2,700	2,781	2,812
CDS SP UL REPUBLIC OF COLOMBI	1.25	1.00	6/20/2021	3,200	27	40
CDS SP UL REPUBLIC OF SOUTH A	(3.11)	1.00	6/20/2024	1,700	-	(53)
CDS SP UL RUSSIAN FEDERATION	(0.65)	1.00	6/20/2024	1,800	-	(12)

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
CDS_SP UL REPUBLIC OF COLOMBI	-	-	6/20/2021	(3,200)	-	-
CDS_SP UL REPUBLIC OF SOUTH A	-	-	6/20/2024	(1,700)	(67)	-
CDS_SP UL RUSSIAN FEDERATION	-	-	6/20/2024	(1,800)	(27)	-
CDX SP UL CMBX.NA.AAA.9_1	1.02	0.50	9/17/2058	14,700	-	150
CDX_SP UL CMBX.NA.AAA.9_1	-	-	9/17/2058	(14,700)	(596)	-
CDX_SP.NA.IG.31 V1 5Y 091819	0.00	-	9/18/2019	(1,600)	(3)	(0)
CHARTER COMMUNICATIONS OPERATI	100.90	3.58	7/23/2020	700	706	706
CHARTER COMMUNICATIONS OPERATI	105.08	4.46	7/23/2022	700	714	736
CHASE FUNDING TRUST SERI 1 2A2	97.62	2.95	12/25/2033	1,763	1,723	1,721
CHASE ISSUANCE TRUST A1 A	100.12	2.69	1/15/2022	2,300	2,300	2,303
CHICAGO IL	110.90	7.05	1/1/2029	2,000	2,000	2,218
CHICAGO IL	112.93	7.75	1/1/2042	255	258	288
CHL MORTGAGE PASS-THR HYB7 1A2	101.85	3.88	11/20/2034	797	657	812
CHL MORTGAGE PASS-THROU 25 2A1	95.92	3.16	2/25/2035	43	24	42
CHUGOKU ELECTRIC POWER CO REGS	100.08	2.70	3/16/2020	1,175	1,175	1,176
CITIBANK NA	100.13	3.12	5/20/2022	2,200	2,200	2,203
CITIGROUP INC	100.85	3.54	4/25/2022	2,800	2,800	2,824
CITIGROUP INC	101.84	3.95	9/1/2023	600	598	611
CITIGROUP INC	101.98	3.20	10/21/2026	1,800	1,673	1,836
CITIGROUP INC	105.71	4.04	6/1/2024	1,700	1,711	1,797
CITIGROUP MORTGAGE LOA HYB3 1A	102.14	4.47	9/25/2034	278	278	284
CITIGROUP MORTGAGE LOA RES1 M1	99.25	3.46	11/25/2034	3,013	2,884	2,991
CITIGROUP MORTGAGE LOAN 11 A1A	101.46	4.81	5/25/2035	174	147	177
CITIGROUP MORTGAGE LOAN 3 2A2A	101.42	4.43	8/25/2035	149	128	151
CITIGROUP MORTGAGE LOAN T 6 A2	102.29	4.55	9/25/2035	204	178	208
CNH INDUSTRIAL CAPITAL LLC	101.82	4.38	11/6/2020	1,800	1,872	1,833
CNH INDUSTRIAL CAPITAL LLC	101.95	3.88	10/15/2021	1,200	1,225	1,223
COMM 2016-COR1 MORTGA COR1 ASE	102.32	2.97	10/10/2049	2,000	2,060	2,046
COMMIT TO PUR FHLMC GOLD SFM	103.42	4.00	7/1/2049	3,000	3,091	3,103
COMMIT TO PUR FNMA SF MTG	100.70	3.00	9/1/2049	76,600	77,124	77,135
COMMIT TO PUR FNMA SF MTG	102.18	3.50	9/1/2049	25,500	26,038	26,056
COMMIT TO PUR FNMA SF MTG	103.32	4.00	8/1/2049	21,600	22,290	22,318
COMMIT TO PUR FNMA SF MTG	103.35	4.00	7/1/2049	(8,200)	(8,469)	(8,475)
COMMIT TO PUR FNMA SF MTG	103.81	4.00	7/1/2034	(3,500)	(3,619)	(3,633)
COMMIT TO PUR FNMA SF MTG	104.46	4.50	8/1/2049	(3,200)	(3,342)	(3,343)
COMMIT TO PUR FNMA SF MTG	105.67	5.00	8/1/2049	(9,600)	(10,142)	(10,145)
COMMIT TO PUR GNMA II JUMBOS	102.04	3.00	8/20/2049	4,500	4,570	4,592
COMMIT TO PUR GNMA II JUMBOS	103.22	3.50	8/20/2049	19,400	19,956	20,024
COMMIT TO PUR GNMA II JUMBOS	103.63	4.00	8/20/2049	48,200	49,934	49,951
COMMIT TO PUR GNMA II JUMBOS	103.66	4.00	7/20/2049	3,900	4,036	4,043
COMMIT TO PUR GNMA II JUMBOS	104.17	4.50	8/20/2049	20,400	21,246	21,251
COMMIT TO PUR GNMA II JUMBOS	104.23	4.50	7/20/2049	(700)	(729)	(730)
COMMIT TO PUR GNMA II JUMBOS	104.50	5.00	8/20/2049	3,125	3,266	3,266
COMMIT TO PUR GNMA II JUMBOS	104.53	5.00	7/20/2049	13,375	13,956	13,981
COMMIT TO PUR GNMA SF MTG	100.47	2.50	7/15/2049	5,100	5,078	5,124
COMMIT TO PUR GNMA SF MTG	102.12	3.00	7/15/2049	1,700	1,724	1,736
COMMIT TO PUR GNMA SF MTG	104.07	4.00	8/15/2049	2,000	2,084	2,081
COOPERATIEVE RABOBANK UA REGS	118.44	5.50	12/31/2049	1,800	2,275	2,132
COOPERATIEVE RABOBANK UA REGS	125.97	6.63	12/31/2049	600	859	756
CREDIT SUISSE GROUP AG 144A	104.93	4.21	6/12/2024	1,400	1,401	1,469
CREDIT SUISSE GROUP FUNDING GU	100.16	2.75	3/26/2020	2,600	2,596	2,604
CREDIT SUISSE GROUP FUNDING GU	100.77	3.13	12/10/2020	500	504	504
CREDIT SUISSE GROUP FUNDING GU	103.67	3.80	9/15/2022	2,800	2,821	2,903
CROWN CASTLE INTERNATIONAL COR	101.94	3.15	7/15/2023	2,200	2,103	2,243
CROWN CASTLE INTERNATIONAL COR	108.74	5.25	1/15/2023	1,200	1,200	1,305

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Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
CSMC TRUST 2016-NXSR NXSR ASB	104.56	3.57	12/15/2049	2,005	2,065	2,096
DAIMLER FINANCE NORTH AME 144A	102.03	3.40	2/22/2022	2,200	2,197	2,245
DELTA AIR LINES INC	101.71	3.63	3/15/2022	2,000	2,042	2,034
DEUTSCHE BANK AG/NEW YORK NY	99.25	3.15	1/22/2021	1,300	1,300	1,290
DEUTSCHE BANK AG/NEW YORK NY	99.58	2.70	7/13/2020	900	899	896
DEUTSCHE BANK AG/NEW YORK NY	100.34	3.95	2/27/2023	1,400	1,398	1,405
DIGITAL REALTY TRUST LP	104.22	3.95	7/1/2022	1,100	1,092	1,146
DIGITAL REALTY TRUST LP	108.41	4.45	7/15/2028	1,800	1,797	1,951
DR HORTON INC	100.71	4.00	2/15/2020	1,500	1,549	1,511
DRIVER AUSTRALIA FIVE TRUS 5 A	70.10	2.62	7/21/2026	1,579	1,213	1,107
DXC TECHNOLOGY CO	100.00	3.47	3/1/2021	1,230	1,232	1,230
ELM PARK CLO DAC 1A A1R 144A	113.90	0.62	4/16/2029	800	985	911
ENTERGY LOUISIANA LLC	115.18	5.40	11/1/2024	4,500	5,127	5,183
EPR PROPERTIES	104.66	4.50	4/1/2025	1,700	1,742	1,779
EPR PROPERTIES	107.56	4.95	4/15/2028	2,100	2,063	2,259
EQM MIDSTREAM PARTNERS LP	103.99	4.75	7/15/2023	1,500	1,498	1,560
ESSEX PORTFOLIO LP	103.86	3.63	5/1/2027	2,300	2,287	2,389
EURO BUXL 30Y BND FUTURE (EUX)	231.06	-	9/6/2019	(0)	-	(158)
EURO-OAT FUTURE (EUX)	187.75	-	9/6/2019	(0)	-	(710)
EUROSAIL-UK 2007-3 3X A3A REGS	126.69	1.79	6/13/2045	1,007	1,178	1,276
FCE BANK PLC REGS	116.15	1.66	2/11/2021	1,200	1,358	1,394
FCE BANK PLC REGS	116.39	1.88	6/24/2021	300	339	349
FHLMC MULTICLASS MTG 3201 SG	17.65	4.03	8/15/2036	1,114	163	197
FHLMC MULTICLASS MTG 3666 FC	101.37	3.20	5/15/2040	291	292	295
FHLMC MULTICLASS MTG 3828 SY	139.78	5.78	2/15/2041	30	31	42
FHLMC MULTICLASS MTG 4620 AF	99.65	2.94	11/15/2042	1,773	1,770	1,767
FHLMC MULTICLASS MTG K065 A1	102.79	2.86	10/25/2026	1,913	1,951	1,966
FIRSTENERGY CORP	105.03	3.90	7/15/2027	1,300	1,296	1,365
FNMA POOL #0111049	100.29	9.00	11/1/2020	12	14	12
FNMA POOL #0468551	103.53	3.98	7/1/2021	2,500	2,501	2,588
FNMA POOL #0909230	102.79	4.50	9/1/2023	178	189	183
FNMA POOL #0AA8715	106.14	4.00	6/1/2039	859	898	912
FNMA POOL #0AB9663	101.72	3.00	6/1/2043	2,108	2,043	2,144
FNMA POOL #0AJ3782	106.51	4.00	11/1/2041	6,212	6,482	6,617
FNMA POOL #0AK2411	106.51	4.00	2/1/2042	1,430	1,482	1,523
FNMA POOL #0AL1378	102.94	6.00	5/1/2024	99	109	101
FNMA POOL #0AL5548	104.86	4.58	5/1/2038	903	951	947
FNMA POOL #0AO1771	106.88	4.00	5/1/2042	826	857	883
FNMA POOL #0AT5096	100.92	3.00	4/1/2043	264	256	266
FNMA POOL #0CA2575	105.06	4.50	11/1/2048	1,303	1,369	1,369
FNMA GTD REMIC P/T 03-W6 F	99.02	2.83	9/25/2042	140	133	139
FNMA GTD REMIC P/T 06-115 ES	142.85	16.62	12/25/2036	294	487	420
FNMA GTD REMIC P/T 06-116 S	17.56	4.11	12/25/2036	388	52	68
FNMA GTD REMIC P/T 07-3 SH	14.66	3.58	2/25/2037	241	29	35
FNMA GTD REMIC P/T 07-39 PI	17.87	4.27	5/25/2037	253	34	45
FNMA GTD REMIC P/T 09-106 SL	13.26	3.76	1/25/2040	1,262	163	167
FNMA GTD REMIC P/T 09-106 SN	16.22	3.76	1/25/2040	2,014	297	327
FNMA GTD REMIC P/T 09-87 CS	17.25	3.66	11/25/2039	2,718	346	469
FNMA GTD REMIC P/T 10-67 FD	101.49	3.24	6/25/2040	106	106	107
FNMA GTD REMIC P/T 11-40 SX	113.72	3.82	11/25/2040	6	6	7
FNMA GTD REMIC P/T 11-60 OA	94.07	-	8/25/2039	354	328	333
FNMA GTD REMIC P/T 15-87 BF	99.68	2.79	12/25/2045	1,244	1,236	1,240
FORD CREDIT AUTO LEASE T B A2A	100.22	2.93	4/15/2021	1,249	1,249	1,252
FORD MOTOR CREDIT CO LLC	100.03	3.53	8/12/2019	3,200	3,200	3,201
FORD MOTOR CREDIT CO LLC	102.83	8.13	1/15/2020	2,300	2,768	2,365

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
GENERAL MOTORS FINANCIAL CO IN	100.35	3.20	7/13/2020	2,500	2,499	2,509
GENERAL MOTORS FINANCIAL REGS	112.21	0.24	3/26/2022	1,600	1,753	1,795
GLP CAPITAL LP / GLP FINANCING	107.78	5.30	1/15/2029	2,000	2,000	2,156
GNMA POOL #0427475	100.13	7.88	6/15/2029	4,831	4,931	4,837
GNMA POOL #0550657	112.44	5.50	9/15/2035	5,207	5,192	5,854
GNMA POOL #0569159	116.51	6.50	3/15/2032	385	405	448
GNMA POOL #0569684	114.09	6.00	2/15/2032	234	247	267
GNMA POOL #0569704	114.09	6.00	2/15/2032	510	538	582
GNMA POOL #0570518	112.16	6.00	1/15/2032	307	325	345
GNMA POOL #0574466	109.86	6.50	3/15/2032	168	176	184
GNMA POOL #0587074	114.06	6.00	5/15/2032	447	468	510
GNMA POOL #0606774	106.82	5.50	4/15/2033	14	15	15
GNMA POOL #0616263	108.34	5.50	2/15/2034	17	19	19
GNMA POOL #0645500	112.30	5.50	10/15/2035	15	17	17
GNMA POOL #0648388	112.10	5.50	11/15/2035	32	35	35
GNMA POOL #0651788	112.43	5.50	4/15/2036	3,381	3,320	3,801
GNMA POOL #0651789	112.44	5.50	4/15/2036	2,346	2,305	2,638
GNMA POOL #0651940	110.66	5.50	5/15/2036	1,129	1,103	1,249
GNMA POOL #0732521	106.48	5.50	7/15/2040	57	63	61
GNMA POOL #0782570	110.47	5.50	2/15/2039	43	47	47
GNMA POOL #0AK8998	102.15	3.00	7/15/2045	170	173	174
GNMA POOL #0AU1958	100.45	2.50	10/15/2046	873	842	877
GNMA GTD REMIC P/T 13-H10 FS	101.67	3.47	4/20/2063	814	828	828
GNMA GTD REMIC P/T 15-H09 FA	100.01	3.10	4/20/2065	15,551	15,531	15,552
GNMA GTD REMIC P/T 15-H11 FC	99.74	3.03	5/20/2065	7,509	7,468	7,490
GNMA GTD REMIC P/T 15-H12 FB	99.94	3.08	5/20/2065	8,115	8,097	8,110
GNMA GTD REMIC P/T 15-H14 AI	99.83	3.05	6/20/2065	12,676	12,609	12,654
GNMA GTD REMIC P/T 15-H14 BI	99.87	2.91	5/20/2065	7,855	7,843	7,845
GNMA GTD REMIC P/T 15-H15 FB	99.93	3.08	6/20/2065	10,231	10,213	10,224
GNMA GTD REMIC P/T 15-H15 FC	99.85	3.06	6/20/2065	5,858	5,841	5,849
GNMA GTD REMIC P/T 15-H16 FM	99.93	3.08	7/20/2065	7,845	7,834	7,840
GNMA GTD REMIC P/T 15-H20 FB	99.93	3.08	8/20/2065	1,917	1,913	1,916
GNMA GTD REMIC P/T 16-H11 F	100.73	3.28	5/20/2066	1,958	1,953	1,973
GNMA GTD REMIC P/T 16-H15 FA	100.52	3.28	7/20/2066	2,488	2,482	2,501
GNMA GTD REMIC P/T 16-H18 FA	100.54	3.23	8/20/2066	2,178	2,167	2,190
GNMA GTD REMIC P/T 16-H19 FE	99.97	2.85	6/20/2061	116	116	116
GNMA GTD REMIC P/T 17-H16 KF	101.05	3.22	8/20/2067	1,923	1,943	1,943
GNMA II POOL #0MA5712	104.58	5.00	1/20/2049	588	616	615
GNMA II POOL #0MA5765	104.95	5.00	2/20/2049	493	516	517
GNMA II POOL #0MA5878	105.01	5.00	4/20/2049	3,583	3,760	3,762
GNMA II POOL #0MA5933	105.20	5.00	5/20/2049	499	526	525
GNMA II POOL #0MA6041	104.86	4.50	7/20/2049	2,200	2,310	2,307
GNMA II POOL #0MA6042	105.32	5.00	7/20/2049	1,500	1,584	1,580
GOLDMAN SACHS GROUP INC/THE	100.63	3.75	4/23/2020	5,500	5,561	5,535
GOLDMAN SACHS GROUP INC/THE	102.06	5.38	3/15/2020	4,800	5,405	4,899
GSAMP TRUST 2004-FM2 FM2 M1	98.45	3.24	1/25/2034	1,628	1,614	1,603
GSR MORTGAGE LOAN TRUS AR6 2A1	102.62	4.50	9/25/2035	372	351	382
HALCYON LOAN ADVISO 3A AR 144A	100.02	3.69	10/22/2025	1,019	1,019	1,019
HCA INC	100.41	4.25	10/15/2019	1,000	1,023	1,004
HCA INC	109.30	5.88	3/15/2022	1,600	1,686	1,749
HEALTHCARE REALTY TRUST INC	103.27	3.88	5/1/2025	1,200	1,199	1,239
HOST HOTELS & RESORTS LP	102.86	3.88	4/1/2024	2,700	2,689	2,777
HSBC HOLDINGS PLC	101.54	3.40	3/8/2021	2,300	2,366	2,335
HSBC HOLDINGS PLC	133.58	5.88	12/31/2049	400	530	534
HSI ASSET SECURITIZAT OPT3 3A3	99.79	2.67	2/25/2036	2,393	2,301	2,388

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ING GROEP NV	101.22	3.75	3/29/2022	2,000	2,000	2,024
INTERNATIONAL LEASE FINANCE CO	107.89	8.25	12/15/2020	1,600	1,876	1,726
INTERNATIONAL LEASE FINANCE CO	108.93	5.88	8/15/2022	1,700	1,793	1,852
IPALCO ENTERPRISES INC	100.60	3.45	7/15/2020	2,000	1,999	2,012
IRS P US0003M R 2.75% 12/11/24	0.02	-	12/9/2019	(9,900)	(108)	(2)
IRS P US0003M R 2.945% 12/11/4	0.19	-	12/9/2019	2,200	106	4
JAPAN BANK FOR INTERNATIONAL C	103.70	2.88	7/21/2027	1,700	1,685	1,763
JAPAN INTERNATIONAL COOPERATIO	102.06	2.75	4/27/2027	3,700	3,681	3,776
JAPAN TOBACCO INC REGS	99.12	2.00	4/13/2021	2,200	2,163	2,181
JMP CREDIT ADVISORS 1RA A 144A	99.54	3.44	1/17/2028	1,000	1,000	995
JP MORGAN CHASE COM LAQ A 144A	100.09	3.39	6/15/2032	982	982	982
JP MORGAN MORTGAGE TRUS A1 7A1	101.29	4.60	7/25/2035	109	103	110
JPMBB COMMERCIAL MORTG C32 ASB	103.34	3.36	11/15/2048	3,100	3,193	3,203
JPMORGAN CHASE & CO	100.27	2.40	6/7/2021	3,200	3,195	3,209
JPMORGAN CHASE & CO	101.77	4.11	3/1/2021	2,900	2,900	2,951
JPMORGAN CHASE & CO	104.88	3.80	7/23/2024	1,700	1,700	1,783
JPMORGAN CHASE BANK NA	100.56	3.09	4/26/2021	4,000	3,998	4,022
KENNEDY WILSON EUROPE REA REGS	130.13	3.95	6/30/2022	1,600	2,105	2,082
KERR-MCGEE CORP	117.20	6.95	7/1/2024	900	1,063	1,055
KEURIG DR PEPPER INC	104.99	4.06	5/25/2023	1,700	1,700	1,785
KEYBANK NA/CLEVELAND OH	102.05	3.35	6/15/2021	2,100	2,100	2,143
KILROY REALTY LP	111.12	4.75	12/15/2028	1,700	1,694	1,889
KOMATSU FINANCE AMERICA I REGS	99.76	2.44	9/11/2022	1,500	1,467	1,496
LLOYDS BANK PLC	99.95	2.40	3/17/2020	1,000	989	999
LLOYDS BANK PLC REGS	79.11	7.50	4/2/2032	2,400	1,836	1,899
LLOYDS BANKING GROUP PLC	74.19	4.00	3/7/2025	1,800	1,396	1,335
LLOYDS BANKING GROUP PLC	101.06	3.00	1/11/2022	500	506	505
LLOYDS BANKING GROUP PLC	104.13	3.90	3/12/2024	1,800	1,797	1,874
LONG GILT FUTURE (ICF)	165.83	-	9/26/2019	(0)	-	(60)
LOOMIS SAYLES CLO 2A A1R 144A	99.50	3.50	4/15/2028	1,400	1,400	1,393
MERRILL LYNCH MORTGAGE IN 3 4A	98.83	2.73	11/25/2035	75	69	74
MERRILL LYNCH MORTGAGE IN D A1	100.24	3.14	9/25/2029	109	103	110
METROPOLITAN LIFE GLOBAL 144A	105.24	3.45	12/18/2026	2,200	2,199	2,315
MICROCHIP TECHNOLOGY INC	101.80	3.92	6/1/2021	1,400	1,400	1,425
MITSUBISHI UFJ FINANCIAL GROUP	102.81	3.46	3/2/2023	2,100	2,100	2,159
MIZUHO FINANCIAL GROUP INC	103.46	3.55	3/5/2023	1,700	1,700	1,759
MOODY'S CORP	100.51	2.63	1/15/2023	1,400	1,397	1,407
MORGAN STANLEY	100.19	2.50	4/21/2021	2,300	2,292	2,304
MORGAN STANLEY	101.90	3.13	7/27/2026	2,500	2,483	2,548
MORGAN STANLEY ABS CAPI HE2 M1	100.25	3.09	1/25/2035	3,179	3,023	3,187
MORGAN STANLEY CAPI CPT B 144A	101.57	3.56	7/13/2029	2,000	2,105	2,031
MORGAN STANLEY CAPITA UB12 ASB	104.33	3.44	12/15/2049	2,600	2,678	2,713
MOUNTAIN VIEW CLO 10A AR 144A	99.64	3.42	10/13/2027	1,000	1,000	996
MRFC MORTGAGE PASS-THR TBC2 A1	99.57	2.95	6/15/2030	1,266	1,207	1,261
MRFC MORTGAGE PASS-THR TBC3 A1	97.53	2.91	12/15/2030	48	45	47
NATIONAL ARCHIVES FACILITY TRU	100.96	8.50	9/1/2019	209	263	211
NATIONAL AUSTRALIA BANK L 144A	100.23	2.25	3/16/2021	2,200	2,199	2,205
NATIONAL RETAIL PROPERTIES INC	108.11	4.30	10/15/2028	1,800	1,787	1,946
NATIONAL RURAL UTILITIES COOPE	100.25	2.97	6/30/2021	1,900	1,900	1,905
NELNET STUDENT LOAN 1A A 144A	100.58	3.32	11/25/2048	321	325	323
NELNET STUDENT LOAN 3A A 144A	100.51	3.55	7/27/2048	488	494	491
NEXTERA ENERGY CAPITAL HOLDING	100.04	2.93	9/3/2019	1,900	1,898	1,901
NEXTERA ENERGY CAPITAL HOLDING	103.95	3.63	6/15/2023	1,300	1,320	1,351
NEXTERA ENERGY CAPITAL HOLDING	104.40	3.55	5/1/2027	2,300	2,293	2,401
NIAGARA MOHAWK POWER CORP 144	110.04	4.28	12/15/2028	700	700	770

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
NISSAN MOTOR ACCEPTANCE C 144A	100.11	3.49	1/13/2022	2,200	2,198	2,202
NORDEA BANK ABP 144A	99.83	2.25	5/27/2021	2,800	2,791	2,795
NORDEA BANK ABP 144A	104.09	3.75	8/30/2023	1,400	1,398	1,457
NORFOLK SOUTHERN RAILWAY CO	106.94	9.75	6/15/2020	1,200	1,391	1,283
NOVASTAR MORTGAGE FUNDING 3 M:	99.88	3.16	1/25/2036	1,634	1,499	1,632
NTT FINANCE CORP REGS	99.12	1.90	7/21/2021	1,400	1,361	1,388
NVR INC	103.83	3.95	9/15/2022	2,100	2,069	2,180
OBP DEPOSITOR LLC T OBP A 144A	101.11	4.65	7/15/2045	2,450	2,538	2,477
ODEBRECHT DRILLING NORBE 144A	61.50	7.35	12/1/2026	623	278	383
ODEBRECHT DRILLING NORBE 144A	99.00	6.35	12/1/2021	243	240	241
ODEBRECHT OIL & GAS FINAN 144A	0.85	-	12/31/2049	322	8	3
OMEGA HEALTHCARE INVESTORS INC	103.88	4.38	8/1/2023	2,300	2,294	2,389
OMEGA HEALTHCARE INVESTORS INC	104.34	4.50	1/15/2025	2,300	2,289	2,400
ONCOR ELECTRIC DELIVERY CO LLC	104.88	4.10	6/1/2022	1,400	1,432	1,468
ONTARIO TEACHERS' CADILLA 144A	101.96	3.13	3/20/2022	2,000	2,014	2,039
OWENS CORNING	97.39	3.40	8/15/2026	1,900	1,735	1,850
PATRONS' LEGACY 144A	94.86	5.78	12/23/2063	5,098	4,996	4,836
PATRONS' LEGACY 144A	97.74	5.65	12/17/2053	7,288	7,217	7,123
PENNSYLVANIA HIGHER EDUCA 1 A1	100.37	3.67	7/25/2029	981	983	985
PHILIP MORRIS INTERNATIONAL IN	100.06	2.38	8/17/2022	2,900	2,887	2,902
PROLOGIS LP	108.38	3.88	9/15/2028	1,600	1,589	1,734
PUBLIC SERVICE CO OF COLORADO	100.13	2.25	9/15/2022	3,002	2,880	3,006
PUBLIC SERVICE CO OF OKLAHOMA	102.79	4.40	2/1/2021	1,500	1,541	1,542
QATAR GOVERNMENT INTERNAT 144A	103.30	3.38	3/14/2024	2,100	2,098	2,169
RECKSON OPERATING PARTNERSHIP	103.54	7.75	3/15/2020	2,700	2,740	2,796
RENAISSANCE HOME EQUITY L 4 A1	100.02	3.01	3/25/2034	404	374	404
RMAC SECURITIES NS1X A2A REGS	119.62	1.00	6/12/2044	1,480	2,119	1,770
ROYAL BANK OF SCOTLAND GR REGS	117.55	2.00	3/8/2023	2,200	2,542	2,586
ROYAL BANK OF SCOTLAND GR REGS	120.85	2.50	3/22/2023	700	846	846
ROYAL BANK OF SCOTLAND GROUP P	102.61	3.88	9/12/2023	1,700	1,623	1,744
ROYAL BANK OF SCOTLAND GROUP P	104.15	4.52	6/25/2024	300	300	312
SABINE PASS LIQUEFACTION LLC	103.87	5.63	2/1/2021	1,295	1,384	1,345
SANTANDER HOLDINGS USA INC	104.02	4.45	12/3/2021	2,100	2,096	2,184
SANTANDER UK GROUP HOLDINGS PL	100.06	2.88	8/5/2021	900	883	901
SANTANDER UK GROUP HOLDINGS PL	100.16	2.88	10/16/2020	1,400	1,390	1,402
SANTANDER UK PLC	101.66	3.40	6/1/2021	1,700	1,697	1,728
SASOL FINANCING USA LLC	108.37	5.88	3/27/2024	2,100	2,097	2,276
SBA TOWER TRUST 144A	100.18	2.88	7/15/2046	1,300	1,315	1,302
SEQUOIA MORTGAGE TRUST 2 3 1A1	96.99	2.69	7/20/2036	710	578	689
SEQUOIA MORTGAGE TRUST 20 2 A1	97.87	2.71	3/20/2035	2,278	2,116	2,229
SHIRE ACQUISITIONS INVESTMENTS	99.85	1.90	9/23/2019	2,000	1,998	1,997
SHIRE ACQUISITIONS INVESTMENTS	100.98	2.88	9/23/2023	1,100	1,058	1,111
SL GREEN REALTY CORP	104.96	4.50	12/1/2022	2,400	2,400	2,519
SLC STUDENT LOAN TRUST 20 1 A5	99.51	2.52	3/15/2027	746	743	742
SLM STUDENT LOAN TRUST 10 A5A	99.86	2.68	4/25/2027	201	201	201
SLM STUDENT LOAN TRUST 20 2 A5	113.63	-	1/25/2024	113	135	128
SLM STUDENT LOAN TRUST 20 6 A3	99.92	2.69	10/27/2025	411	410	410
SLM STUDENT LOAN TRUST 20 7 A4	98.87	2.73	10/25/2029	2,518	2,497	2,490
SPIRIT AEROSYSTEMS INC	104.92	4.60	6/15/2028	1,700	1,712	1,784
SPRINT SPECTRUM CO LLC / 144A	103.75	4.74	9/20/2029	1,200	1,200	1,245
STADSHYPOTEK AB 144A	100.98	2.50	4/5/2022	4,600	4,595	4,645
STATE STREET CORP	100.93	3.42	8/18/2020	5,000	5,000	5,047
STORA ENSO OYJ REGS	119.78	2.50	3/21/2028	500	554	599
STRUCTURED ADJUSTABLE R 12 7A1	101.63	4.46	9/25/2034	556	559	566
STRUCTURED ADJUSTABLE RA 12 9A	101.84	4.50	9/25/2034	1,870	1,871	1,904

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SUNOCO LOGISTICS PARTNERS OPER	101.67	5.50	2/15/2020	400	417	407
SUNOCO LOGISTICS PARTNERS OPER	113.88	5.95	12/1/2025	495	551	564
SYNCHRONY BANK	101.66	3.65	5/24/2021	1,800	1,799	1,830
TEVA PHARMACEUTICAL FINAN REGS	111.60	0.38	7/25/2020	1,200	1,415	1,339
THARALDSON HOTEL PO THL A 144A	99.97	3.17	11/11/2034	1,134	1,133	1,134
TOKYO METROPOLITAN GOVERN 144A	99.59	2.00	5/17/2021	2,300	2,292	2,291
TOWD POINT MORTGA GR4A A1 144A	127.44	1.85	10/20/2051	2,500	3,305	3,186
TRILLIUM CREDIT CARD 1A A 144A	100.00	2.65	2/27/2023	1,000	1,000	1,000
TTX CO 144A	100.07	2.60	6/15/2020	1,700	1,700	1,701
U S TREASURY BOND	99.62	2.50	2/15/2045	33,800	31,952	33,672
U S TREASURY BOND	104.83	2.75	11/15/2042	8,600	8,571	9,015
U S TREASURY BOND	104.93	2.75	8/15/2042	200	208	210
U S TREASURY BOND	106.95	2.88	5/15/2043	9,700	9,870	10,374
U S TREASURY BOND	107.28	2.88	5/15/2049	9,800	10,452	10,514
U S TREASURY BOND	109.55	3.00	2/15/2048	4,800	4,797	5,258
U S TREASURY BOND	120.71	3.63	8/15/2043	6,100	7,062	7,363
U S TREASURY NOTE	99.96	1.63	6/30/2024	5,300	5,290	5,298
U S TREASURY NOTE	100.07	1.75	9/30/2022	2,000	1,992	2,001
U S TREASURY NOTE	100.07	1.75	1/31/2023	4,300	4,226	4,303
U S TREASURY NOTE	100.40	1.88	4/30/2022	940	944	944
U S TREASURY NOTE	100.45	1.88	7/31/2022	3,600	3,587	3,616
U S TREASURY NOTE	100.88	2.00	10/31/2022	1,700	1,660	1,715
U S TREASURY NOTE	101.70	2.13	9/30/2024	16,300	15,916	16,576
U S TREASURY NOTE	102.17	2.25	1/31/2024	400	399	409
U S TREASURY NOTE	102.43	2.25	8/15/2027	30	29	31
UBS AG/STAMFORD CT	100.60	3.37	6/1/2020	3,100	3,100	3,119
UBS AG/STAMFORD CT	112.17	7.63	8/17/2022	1,500	1,725	1,683
UBS GROUP FUNDING SWITZER 144A	100.87	2.86	8/15/2023	2,100	2,064	2,118
UBS GROUP FUNDING SWITZER 144A	100.92	3.00	4/15/2021	2,400	2,398	2,422
UDR INC	102.46	3.50	1/15/2028	1,700	1,693	1,742
US 10YR NOTE FUTURE (CBT)	127.97	-	9/19/2019	1	-	2,984
US 5YR NOTE FUTURE (CBT)	118.16	-	9/30/2019	1	-	942
US LONG BOND FUTURE (CBT)	155.59	-	9/19/2019	(0)	-	(47)
US TREAS-CPI INFLAT	98.92	0.75	2/15/2045	326	310	322
US TREAS-CPI INFLAT	100.92	0.38	7/15/2027	3,551	3,407	3,584
US TREAS-CPI INFLAT	101.88	0.88	2/15/2047	1,058	1,059	1,078
US TREAS-CPI INFLAT	102.40	0.63	1/15/2026	18,925	18,748	19,380
US TREAS-CPI INFLAT	104.19	0.75	7/15/2028	3,155	3,085	3,287
US TREAS-CPI INFLAT	104.77	1.00	2/15/2046	1,510	1,564	1,582
US TREAS-CPI INFLAT	105.19	1.00	2/15/2048	5,699	5,789	5,995
US TREAS-CPI INFLAT	105.26	0.88	1/15/2029	20,744	21,367	21,834
US TREAS-CPI INFLAT	113.48	1.38	2/15/2044	2,631	2,994	2,986
UTAH STATE BOARD OF REGENT 1 A	100.00	3.15	1/25/2057	1,117	1,111	1,117
VENTURE XII CLO L 12A ARR 144A	99.73	3.43	2/28/2026	961	961	958
VERIZON COMMUNICATIONS INC	104.38	3.38	2/15/2025	5,429	5,249	5,667
VESTEDA FINANCE BV REGS	122.23	2.50	10/27/2022	3,000	3,629	3,667
VMWARE INC	99.73	2.30	8/21/2020	2,100	2,085	2,094
VOLKSWAGEN BANK GMBH REGS	116.71	1.25	8/1/2022	1,900	2,169	2,218
VOLKSWAGEN GROUP OF AMERI 144A	99.78	2.40	5/22/2020	600	592	599
WAHA AEROSPACE BV 144A	100.18	3.93	7/28/2020	330	330	331
WAMU MORTGAGE PASS-TH AR14 2A1	97.89	4.06	12/25/2035	195	178	191
WAMU MORTGAGE PASS-THROU AR6	101.26	2.82	5/25/2044	455	426	460
WASHINGTON PRIME GROUP LP	94.75	5.95	8/15/2024	2,900	2,856	2,748
WELLS FARGO & CO	99.46	2.10	7/26/2021	1,500	1,486	1,492
WELLS FARGO & CO	101.89	3.81	10/31/2023	4,000	4,000	4,076

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WELLS FARGO BANK NA	100.11	3.09	7/23/2021	1,700	1,700	1,702
WELLS FARGO BANK NA	100.21	3.14	5/27/2022	2,200	2,200	2,205
WELLS FARGO BANK NA	104.37	3.55	8/14/2023	2,100	2,097	2,192
WELLS FARGO COMMERCIA LC25 ASB	104.62	3.49	12/15/2059	2,700	2,781	2,825
WELLS FARGO COMMERCIAL C36 ASB	102.18	2.93	11/15/2059	3,800	3,914	3,883
WELLS FARGO MORTGAGE AR10 2A1	103.97	4.95	6/25/2035	111	108	115
WELLS FARGO MORTGAGE AR11 1A1	102.33	4.84	6/25/2035	460	463	471
WELLS FARGO MORTGAGE AR12 1A1	103.16	4.94	5/25/2035	1,546	1,572	1,595
WELLS FARGO MORTGAGE B AR8 2A1	101.21	4.99	6/25/2035	163	154	165
WELLTOWER INC	105.36	4.00	6/1/2025	3,300	3,298	3,477
WRKCO INC	109.33	4.90	3/15/2029	1,400	1,399	1,531
YARA INTERNATIONAL ASA 144A	107.80	4.75	6/1/2028	2,200	2,194	2,372
Core Fixed Income				966,405	\$ 980,876	\$ 998,255
Core Fixed Income Receivable						5,013
Total Core Fixed Income						\$ 1,003,268

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Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
Emerging Market Debt						
AMBER CIRCLE FUNDING LTD REGS	\$ 101.49	3.25	12/4/2022	970	\$ 967	\$ 984
ANGOLAN GOVERNMENT INTERN REGS	107.01	8.25	5/9/2028	516	516	552
ANGOLAN GOVERNMENT INTERN REGS	110.13	9.38	5/8/2048	928	937	1,022
ANGOLAN GOVERNMENT INTERN REGS	114.57	9.50	11/12/2025	550	545	630
ARGENTINE REPUBLIC GOVERNMENT	58.38	3.75	12/31/2038	2,150	1,350	1,255
ARGENTINE REPUBLIC GOVERNMENT	74.00	6.88	1/11/2048	3,279	2,738	2,426
ARGENTINE REPUBLIC GOVERNMENT	76.00	5.88	1/11/2028	1,169	1,097	888
ARGENTINE REPUBLIC GOVERNMENT	79.25	7.63	4/22/2046	1,632	1,310	1,293
ARGENTINE REPUBLIC GOVERNMENT	81.60	8.28	12/31/2033	280	298	229
ARGENTINE REPUBLIC GOVERNMENT	83.38	8.28	12/31/2033	547	596	456
ARGENTINE REPUBLIC GOVERNMENT	84.45	7.50	4/22/2026	1,281	1,394	1,082
ARGENTINE REPUBLIC GOVERNMENT	87.75	6.88	4/22/2021	883	951	775
BAHRAIN GOVERNMENT INTERN REGS	105.73	7.50	9/20/2047	1,210	1,205	1,279
BAHRAIN GOVERNMENT INTERN REGS	107.62	7.00	10/12/2028	1,089	1,030	1,172
BANCO DEL ESTADO DE CHILE REGS	103.75	3.88	2/8/2022	300	306	311
BANCO DO BRASIL SA/CAYMAN REGS	95.18	6.25	12/31/2049	1,200	976	1,142
BANCO NACIONAL DE COSTA R REGS	104.63	6.25	11/1/2023	360	352	377
BRAZILIAN GOVERNMENT INTERNATI	98.85	5.00	1/27/2045	793	632	784
BRAZILIAN GOVERNMENT INTERNATI	99.13	2.63	1/5/2023	600	500	595
BRAZILIAN GOVERNMENT INTERNATI	104.90	4.63	1/13/2028	879	876	922
BRAZILIAN GOVERNMENT INTERNATI	105.43	4.25	1/7/2025	980	909	1,033
BRAZILIAN GOVERNMENT INTERNATI	106.53	5.63	2/21/2047	344	332	366
BRAZILIAN GOVERNMENT INTERNATI	107.18	5.63	1/7/2041	250	221	268
BRAZILIAN GOVERNMENT INTERNATI	115.15	6.00	4/7/2026	452	472	520
BRAZILIAN GOVERNMENT INTERNATI	123.63	7.13	1/20/2037	540	570	668
BRAZILIAN GOVERNMENT INTERNATI	133.38	8.25	1/20/2034	320	359	427
CEDC FINANCE CORP INTERNA 144A	85.00	10.00	12/31/2022	335	325	285
CHILE GOVERNMENT INTERNATIONAL	104.88	3.24	2/6/2028	345	345	362
CHINA EVERGRANDE GROUP REGS	88.66	8.75	6/28/2025	255	248	226
CHINA EVERGRANDE GROUP REGS	89.55	7.50	6/28/2023	1,530	1,390	1,370
CHINA EVERGRANDE GROUP REGS	96.61	10.50	4/11/2024	870	830	841
COLOMBIA GOVERNMENT INTERNATIO	104.30	3.88	4/25/2027	698	688	728
COLOMBIA GOVERNMENT INTERNATIO	104.70	4.00	2/26/2024	630	614	660
COLOMBIA GOVERNMENT INTERNATIO	110.35	5.00	6/15/2045	544	474	600
COLOMBIA GOVERNMENT INTERNATIO	118.25	5.63	2/26/2044	631	612	746
COLOMBIA GOVERNMENT INTERNATIO	123.00	8.13	5/21/2024	710	872	873
COLOMBIA GOVERNMENT INTERNATIO	123.75	6.13	1/18/2041	845	865	1,046
COLOMBIA GOVERNMENT INTERNATIO	136.00	7.38	9/18/2037	551	642	749
COMISION FEDERAL DE ELECT REGS	103.30	4.88	1/15/2024	580	586	599
COMISION FEDERAL DE ELECT REGS	105.28	5.75	2/14/2042	670	622	705
CORP NACIONAL DEL COBRE D 144A	106.09	4.38	2/5/2049	577	549	612
CORP NACIONAL DEL COBRE D REGS	104.04	4.25	7/17/2042	399	383	415
CORP NACIONAL DEL COBRE D REGS	107.91	4.50	8/1/2047	376	389	406
CORP NACIONAL DEL COBRE D REGS	113.36	4.88	11/4/2044	1,103	1,001	1,250
CORP NACIONAL DEL COBRE D REGS	124.07	5.63	10/18/2043	581	640	721
COSTA RICA GOVERNMENT INT REGS	86.38	5.63	4/30/2043	380	341	328
CROATIA GOVERNMENT INTERN REGS	103.84	6.63	7/14/2020	1,060	1,164	1,101
CROATIA GOVERNMENT INTERN REGS	106.13	6.38	3/24/2021	840	923	892
CROATIA GOVERNMENT INTERN REGS	114.64	6.00	1/26/2024	1,440	1,581	1,651
DEVELOPMENT BANK OF KAZAK REGS	101.50	4.13	12/10/2022	970	873	985
DEVELOPMENT BANK OF MONGO REGS	104.25	7.25	10/23/2023	200	206	208
DIGICEL GROUP ONE LTD REGS	55.00	8.25	12/30/2022	2,424	1,579	1,333
DIGICEL GROUP TWO LTD 144A	21.00	9.13	4/1/2024	1,396	688	293
DIGICEL GROUP TWO LTD 144A	22.00	8.25	9/30/2022	2,286	1,181	503

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DIGICEL LTD REGS	74.75	6.00	4/15/2021	680	628	508
DOMINICAN REPUBLIC INTERN REGS	105.25	7.50	5/6/2021	306	334	322
DOMINICAN REPUBLIC INTERN REGS	106.25	5.50	1/27/2025	1,340	1,338	1,424
DOMINICAN REPUBLIC INTERN REGS	106.89	5.88	4/18/2024	880	903	941
DOMINICAN REPUBLIC INTERN REGS	107.88	6.00	7/19/2028	330	330	356
DOMINICAN REPUBLIC INTERN REGS	109.38	6.85	1/27/2045	1,230	1,243	1,345
DOMINICAN REPUBLIC INTERN REGS	110.88	6.60	1/28/2024	480	509	532
DOMINICAN REPUBLIC INTERN REGS	112.88	6.88	1/29/2026	1,300	1,435	1,467
DOMINICAN REPUBLIC INTERN REGS	115.88	7.45	4/30/2044	670	726	776
DTEK FINANCE PLC	101.41	10.75	12/31/2024	1,270	1,271	1,288
ECUADOR GOVERNMENT INTERN 144A	112.75	10.75	1/31/2029	948	968	1,069
ECUADOR GOVERNMENT INTERN REGS	98.88	7.88	1/23/2028	1,737	1,627	1,717
ECUADOR GOVERNMENT INTERN REGS	104.00	8.88	10/23/2027	2,251	2,366	2,341
ECUADOR GOVERNMENT INTERN REGS	104.25	10.50	3/24/2020	262	226	273
ECUADOR GOVERNMENT INTERN REGS	104.75	7.95	6/20/2024	1,578	1,281	1,653
ECUADOR GOVERNMENT INTERN REGS	107.75	9.63	6/2/2027	1,526	1,556	1,644
ECUADOR GOVERNMENT INTERN REGS	108.25	9.65	12/13/2026	3,678	3,795	3,981
ECUADOR GOVERNMENT INTERN REGS	109.13	8.75	6/2/2023	1,858	1,895	2,028
ECUADOR GOVERNMENT INTERN REGS	112.25	10.75	3/28/2022	1,605	1,657	1,802
ECUADOR GOVERNMENT INTERN REGS	112.75	10.75	1/31/2029	1,827	2,098	2,060
EGYPT GOVERNMENT INTERNAT REGS	100.86	6.59	2/21/2028	1,034	1,005	1,043
EGYPT GOVERNMENT INTERNAT REGS	101.24	7.90	2/21/2048	1,462	1,456	1,480
EGYPT GOVERNMENT INTERNAT REGS	105.44	7.60	3/1/2029	350	350	369
EGYPT GOVERNMENT INTERNAT REGS	105.87	8.50	1/31/2047	1,210	1,270	1,281
EGYPT GOVERNMENT INTERNAT REGS	106.59	7.50	1/31/2027	673	717	717
EGYPT GOVERNMENT INTERNAT REGS	107.50	8.70	3/1/2049	200	200	215
EL SALVADOR GOVERNMENT IN REGS	99.63	5.88	1/30/2025	444	408	442
EL SALVADOR GOVERNMENT IN REGS	99.75	6.38	1/18/2027	460	435	459
EL SALVADOR GOVERNMENT IN REGS	100.88	7.38	12/1/2019	210	213	212
EL SALVADOR GOVERNMENT IN REGS	104.00	7.65	6/15/2035	240	216	250
EL SALVADOR GOVERNMENT IN REGS	105.38	7.63	2/1/2041	763	701	804
EL SALVADOR GOVERNMENT IN REGS	110.13	8.25	4/10/2032	498	489	548
EL SALVADOR GOVERNMENT IN REGS	113.63	8.63	2/28/2029	725	774	824
EMPRESA NACIONAL DEL PETR REGS	102.13	4.50	9/14/2047	487	465	497
EMPRESA NACIONAL DEL PETR REGS	102.50	3.75	8/5/2026	310	291	318
EP PETROECUADOR VIA NOBLE REGS	100.50	7.98	9/24/2019	200	159	201
ESKOM HOLDINGS SOC LTD REGS	100.80	5.75	1/26/2021	200	171	202
ESKOM HOLDINGS SOC LTD REGS	104.67	6.75	8/6/2023	548	524	574
ESKOM HOLDINGS SOC LTD REGS	104.78	7.13	2/11/2025	1,332	1,288	1,396
ESKOM HOLDINGS SOC LTD REGS	112.65	8.45	8/10/2028	260	260	293
EXPORT-IMPORT BANK OF IND REGS	100.09	3.38	8/5/2026	360	335	360
EXPORT-IMPORT BANK OF IND REGS	103.27	4.00	1/14/2023	570	581	589
GABON GOVERNMENT INTERNAT REGS	98.96	6.38	12/12/2024	1,610	1,416	1,593
GEORGIA GOVERNMENT INTERN REGS	105.27	6.88	4/12/2021	600	665	632
GEORGIAN RAILWAY JSC REGS	108.53	7.75	7/11/2022	500	538	543
GHANA GOVERNMENT INTERNAT 144A	101.52	8.13	3/26/2032	450	450	457
GHANA GOVERNMENT INTERNAT 144A	103.52	8.95	3/26/2051	300	300	311
GHANA GOVERNMENT INTERNAT 144A	105.21	7.88	3/26/2027	320	327	337
GHANA GOVERNMENT INTERNAT REGS	100.83	8.63	6/16/2049	781	777	787
GHANA GOVERNMENT INTERNAT REGS	101.61	7.63	5/16/2029	423	427	430
GHANA GOVERNMENT INTERNAT REGS	107.50	8.13	1/18/2026	400	433	430
GMO-ECDF FBO SOUTH CAROLINA	27.88	-	(blank)	10,586	278,859	295,133
HUNGARY GOVERNMENT INTERNATIONAL	110.00	5.38	2/21/2023	1,510	1,662	1,661
HUNGARY GOVERNMENT INTERNATIONAL	112.73	5.38	3/25/2024	790	874	891
HUNGARY GOVERNMENT INTERNATIONAL	113.31	5.75	11/22/2023	1,400	1,582	1,586

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HUNGARY GOVERNMENT INTERNATION	160.36	7.63	3/29/2041	184	253	295
INDONESIA ASAHAN ALUMINIU REGS	109.66	5.71	11/15/2023	471	510	517
INDONESIA ASAHAN ALUMINIU REGS	122.87	6.76	11/15/2048	398	456	489
INDONESIA GOVERNMENT INTE REGS	105.05	4.13	1/15/2025	430	420	452
INDONESIA GOVERNMENT INTE REGS	108.04	4.75	7/18/2047	361	371	390
INDONESIA GOVERNMENT INTE REGS	112.67	5.13	1/15/2045	996	980	1,122
INDONESIA GOVERNMENT INTE REGS	113.91	5.25	1/17/2042	469	510	534
INDONESIA GOVERNMENT INTE REGS	115.39	5.25	1/8/2047	661	709	763
INDONESIA GOVERNMENT INTE REGS	125.16	5.95	1/8/2046	593	677	742
INDONESIA GOVERNMENT INTE REGS	130.07	6.63	2/17/2037	411	508	535
INDONESIA GOVERNMENT INTE REGS	144.59	7.75	1/17/2038	510	677	737
INDONESIA GOVERNMENT INTE REGS	150.60	8.50	10/12/2035	275	402	414
IRAQ INTERNATIONAL BOND REGS	98.32	5.80	1/15/2028	300	271	295
IVORY COAST GOVERNMENT IN REGS	97.11	5.75	12/31/2032	2,613	2,351	2,537
IVORY COAST GOVERNMENT IN REGS	98.95	6.38	3/3/2028	370	339	366
JAMAICA GOVERNMENT INTERNATION	113.50	6.75	4/28/2028	380	430	431
JAMAICA GOVERNMENT INTERNATION	123.50	7.88	7/28/2045	290	293	358
JORDAN GOVERNMENT INTERNA REGS	101.16	5.75	1/31/2027	370	349	374
KAISA GROUP HOLDINGS LTD REGS	90.78	9.38	6/30/2024	920	813	835
KAISA GROUP HOLDINGS LTD REGS	95.28	8.50	6/30/2022	1,015	879	967
KAZAKHSTAN GOVERNMENT INT REGS	138.33	6.50	7/21/2045	730	764	1,010
KAZAKHSTAN TEMIR ZHOLY FI REGS	124.10	6.95	7/10/2042	1,020	924	1,266
KAZMUNAYGAS NATIONAL CO J REGS	110.72	5.38	4/24/2030	685	685	758
KAZMUNAYGAS NATIONAL CO J REGS	119.15	6.38	10/24/2048	265	262	316
KENYA GOVERNMENT INTERNAT 144A	104.40	7.00	5/22/2027	290	290	303
KENYA GOVERNMENT INTERNAT 144A	105.66	8.00	5/22/2032	581	576	614
KENYA GOVERNMENT INTERNAT REGS	104.01	8.25	2/28/2048	616	623	641
LEBANON GOVERNMENT INTERN REGS	76.81	7.25	3/23/2037	239	197	184
LEBANON GOVERNMENT INTERN REGS	77.76	7.00	3/23/2032	728	593	566
LEBANON GOVERNMENT INTERN REGS	79.08	6.60	11/27/2026	435	424	344
LEBANON GOVERNMENT INTERN REGS	79.12	6.85	3/23/2027	601	477	476
LEBANON GOVERNMENT INTERN REGS	83.88	6.00	1/27/2023	260	261	218
LEBANON GOVERNMENT INTERN REGS	85.06	6.10	10/4/2022	2,371	2,315	2,017
LEBANON GOVERNMENT INTERN REGS	94.28	8.25	4/12/2021	2,058	2,115	1,940
LEBANON GOVERNMENT INTERN REGS	99.00	5.45	11/28/2019	898	884	889
LEBANON GOVERNMENT INTERNATION	97.75	6.38	3/9/2020	720	743	704
METINVEST BV REGS	103.26	7.75	4/23/2023	1,075	1,045	1,110
METINVEST BV REGS	103.80	8.50	4/23/2026	1,985	1,968	2,060
MEXICO GOVERNMENT INTERNATIONA	99.13	4.35	1/15/2047	384	383	381
MEXICO GOVERNMENT INTERNATIONA	104.38	4.75	3/8/2044	362	337	378
MEXICO GOVERNMENT INTERNATIONA	109.25	5.75	10/12/2110	490	471	535
MEXICO GOVERNMENT INTERNATIONA	116.50	5.55	1/21/2045	414	432	482
MEXICO GOVERNMENT INTERNATIONA	119.35	6.05	1/11/2040	230	256	275
MONDRIAN EMERGING MARKETS DEBT	23.94	-	(blank)	10,895	254,376	260,807
MONGOLIA GOVERNMENT INTER REGS	101.78	5.63	5/1/2023	346	350	352
MONGOLIAN MINING CORP	53.50	0.00	12/31/2049	250	111	134
MOROCCO GOVERNMENT INTERN REGS	104.38	4.25	12/11/2022	813	823	849
MOROCCO GOVERNMENT INTERN REGS	113.61	5.50	12/11/2042	230	229	261
NEW WORLD RESOURCES NV REGS	2.28	8.00	4/7/2020	558	177	13
NIGERIA GOVERNMENT INTERN REGS	99.64	7.63	11/28/2047	540	547	538
NIGERIA GOVERNMENT INTERN REGS	100.08	6.50	11/28/2027	740	742	741
NIGERIA GOVERNMENT INTERN REGS	101.42	7.70	2/23/2038	469	471	476
NIGERIA GOVERNMENT INTERN REGS	113.16	9.25	1/21/2049	350	356	396
OI SA	103.25	10.00	7/27/2025	755	755	780
OIL AND GAS HOLDING CO BS REGS	111.20	8.38	11/7/2028	300	300	334

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OMAN GOVERNMENT INTERNATI REGS	86.25	6.50	3/8/2047	1,639	1,513	1,414
OMAN GOVERNMENT INTERNATI REGS	88.12	6.75	1/17/2048	1,240	1,185	1,093
OMAN GOVERNMENT INTERNATI REGS	92.32	4.75	6/15/2026	200	186	185
PAKISTAN GOVERNMENT INTER REGS	101.02	6.88	12/5/2027	1,596	1,527	1,612
PAKISTAN GOVERNMENT INTER REGS	109.28	8.25	4/15/2024	1,277	1,365	1,396
PAKISTAN GOVERNMENT INTER REGS	109.65	8.25	9/30/2025	854	907	936
PANAMA GOVERNMENT INTERNATIONA	106.35	4.00	9/22/2024	250	251	266
PANAMA GOVERNMENT INTERNATIONA	109.88	4.30	4/29/2053	720	619	791
PANAMA GOVERNMENT INTERNATIONA	112.85	4.50	5/15/2047	290	289	327
PANAMA GOVERNMENT INTERNATIONA	124.28	7.13	1/29/2026	160	203	199
PANAMA GOVERNMENT INTERNATIONA	136.00	6.70	1/26/2036	650	803	884
PANAMA GOVERNMENT INTERNATIONA	141.63	8.88	9/30/2027	320	448	453
PANAMA GOVERNMENT INTERNATIONA	149.88	9.38	4/1/2029	330	484	495
PARAGUAY GOVERNMENT INTER REGS	105.00	4.63	1/25/2023	380	390	399
PARAGUAY GOVERNMENT INTER REGS	108.25	4.70	3/27/2027	382	393	414
PERTAMINA PERSERO PT REGS	114.78	6.00	5/3/2042	360	339	413
PERTAMINA PERSERO PT REGS	123.61	6.50	11/7/2048	331	325	409
PERUSAHAAN LISTRIK NEGARA REGS	105.64	5.25	5/15/2047	245	250	259
PERUSAHAAN LISTRIK NEGARA REGS	105.85	5.50	11/22/2021	711	758	753
PERUSAHAAN LISTRIK NEGARA REGS	118.79	6.15	5/21/2048	506	503	601
PERUSAHAAN PENERBIT SBSN REGS	105.59	4.33	5/28/2025	290	282	306
PERUSAHAAN PENERBIT SBSN REGS	106.81	4.55	3/29/2026	650	663	694
PERUVIAN GOVERNMENT INTERNATIO	127.65	7.35	7/21/2025	1,210	1,546	1,545
PERUVIAN GOVERNMENT INTERNATIO	137.75	5.63	11/18/2050	1,541	1,778	2,123
PERUVIAN GOVERNMENT INTERNATIO	161.50	8.75	11/21/2033	1,160	1,707	1,873
PETROLEOS DE VENEZUELA SA REGS	15.00	5.38	4/12/2027	390	134	59
PETROLEOS DE VENEZUELA SA REGS	23.00	9.00	11/17/2021	845	358	194
PETROLEOS DE VENEZUELA SA REGS	24.00	9.75	5/17/2035	1,123	487	270
PETROLEOS DE VENEZUELA SA REGS	24.00	12.75	2/17/2022	452	232	108
PETROLEOS DE VENEZUELA SA REGS	87.00	8.50	10/27/2020	3,087	2,310	2,686
PETROLEOS DEL PERU SA REGS	113.75	5.63	6/19/2047	439	461	499
PETROLEOS MEXICANOS	80.08	5.50	6/27/2044	158	130	127
PETROLEOS MEXICANOS	80.55	5.63	1/23/2046	1,614	1,299	1,300
PETROLEOS MEXICANOS	85.85	6.35	2/12/2048	928	785	797
PETROLEOS MEXICANOS	86.00	6.38	1/23/2045	203	169	175
PETROLEOS MEXICANOS	88.70	6.50	6/2/2041	530	502	470
PETROLEOS MEXICANOS	89.05	6.75	9/21/2047	2,462	2,192	2,192
PETROLEOS MEXICANOS	101.24	6.88	8/4/2026	890	972	901
PETROLEOS MEXICANOS	101.25	6.00	3/5/2020	240	255	243
PETRONAS CAPITAL LTD REGS	114.54	7.88	5/22/2022	220	275	252
PHILIPPINE GOVERNMENT INTERNAT	139.31	6.38	10/23/2034	560	748	780
PHILIPPINE GOVERNMENT INTERNAT	143.22	10.63	3/16/2025	350	554	501
PHILIPPINE GOVERNMENT INTERNAT	147.11	7.75	1/14/2031	710	1,022	1,044
PHILIPPINE GOVERNMENT INTERNAT	159.79	9.50	2/2/2030	850	1,353	1,358
POWER SECTOR ASSETS & LIA REGS	121.55	7.39	12/2/2024	860	1,118	1,045
QATAR GOVERNMENT INTERNAT REGS	107.75	4.00	3/14/2029	1,110	1,107	1,196
QATAR GOVERNMENT INTERNAT REGS	114.60	4.82	3/14/2049	1,000	1,000	1,146
QATAR GOVERNMENT INTERNAT REGS	119.13	5.10	4/23/2048	971	993	1,157
REPUBLIC OF BELARUS INTER REGS	107.00	6.20	2/28/2030	955	906	1,022
REPUBLIC OF BELARUS INTER REGS	107.54	6.88	2/28/2023	2,065	2,231	2,221
REPUBLIC OF BELARUS INTER REGS	113.92	7.63	6/29/2027	1,590	1,751	1,811
REPUBLIC OF SOUTH AFRICA GOVER	96.34	5.00	10/12/2046	745	713	718
REPUBLIC OF SOUTH AFRICA GOVER	98.21	4.30	10/12/2028	1,664	1,642	1,634
REPUBLIC OF SOUTH AFRICA GOVER	102.48	5.65	9/27/2047	1,130	1,129	1,158
REPUBLIC OF SOUTH AFRICA GOVER	103.41	4.88	4/14/2026	840	838	869

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REPUBLIC OF SOUTH AFRICA GOVER	107.12	5.88	5/30/2022	241	262	258
REPUBLIC OF SOUTH AFRICA GOVER	108.45	5.88	6/22/2030	283	283	307
ROMANIAN GOVERNMENT INTER REGS	105.95	4.38	8/22/2023	1,448	1,520	1,534
ROMANIAN GOVERNMENT INTER REGS	126.79	6.13	1/22/2044	140	165	178
RUSSIAN FOREIGN BOND - EU REGS	103.25	4.25	6/23/2027	400	379	413
RUSSIAN FOREIGN BOND - EU REGS	103.67	4.38	3/21/2029	800	783	829
RUSSIAN FOREIGN BOND - EU REGS	110.46	5.25	6/23/2047	1,000	1,030	1,105
RUSSIAN RAILWAYS VIA RZD REGS	105.38	5.70	4/5/2022	409	419	431
SAMARCO MINERACAO SA REGS	76.00	4.13	11/1/2022	1,835	1,171	1,395
SAMARCO MINERACAO SA REGS	79.38	5.38	9/26/2024	1,130	801	897
SAMARCO MINERACAO SA REGS	79.38	5.75	10/24/2023	1,950	1,368	1,548
SAUDI ARABIAN OIL CO 144A	101.24	4.25	4/16/2039	413	405	418
SAUDI ARABIAN OIL CO 144A	101.24	4.25	4/16/2039	429	420	434
SAUDI GOVERNMENT INTERNAT REGS	108.05	4.38	4/16/2029	200	215	216
SAUDI GOVERNMENT INTERNAT REGS	108.05	4.38	4/16/2029	670	664	724
SAUDI GOVERNMENT INTERNAT REGS	109.50	5.00	4/17/2049	997	1,065	1,092
SAUDI GOVERNMENT INTERNAT REGS	113.66	5.25	1/16/2050	1,182	1,214	1,343
SCF CAPITAL DESIGNATED AC REGS	103.47	5.38	6/16/2023	797	830	825
SECOND PAKISTAN INTERNATI REGS	100.75	6.75	12/3/2019	790	818	796
SENEGAL GOVERNMENT INTERN REGS	93.91	6.75	3/13/2048	398	366	374
SENEGAL GOVERNMENT INTERN REGS	96.71	6.25	5/23/2033	502	520	485
SINOCHEM OVERSEAS CAPITAL REGS	102.53	4.50	11/12/2020	700	736	718
SINOCHEM OVERSEAS CAPITAL REGS	132.33	6.30	11/12/2040	320	390	423
SINOPEC GROUP OVERSEAS DE REGS	115.93	4.88	5/17/2042	200	207	232
SOUTHERN GAS CORRIDOR CJS REGS	115.92	6.88	3/24/2026	1,310	1,394	1,518
SRI LANKA GOVERNMENT INTE 144A	100.22	7.55	3/28/2030	640	640	641
SRI LANKA GOVERNMENT INTE REGS	94.75	6.20	5/11/2027	579	566	549
SRI LANKA GOVERNMENT INTE REGS	99.65	6.83	7/18/2026	392	415	391
SRI LANKA GOVERNMENT INTE REGS	103.11	7.85	3/14/2029	753	753	776
STATE OIL CO OF THE AZERB REGS	118.27	6.95	3/18/2030	710	684	840
SUNAC CHINA HOLDINGS LTD REGS	100.53	7.95	10/11/2023	845	841	849
SURINAME GOVERNMENT INTER REGS	93.00	9.25	10/26/2026	556	548	517
THIRD PAKISTAN INTERNATIO REGS	100.80	5.63	12/5/2022	559	548	563
THIRD PAKISTAN INTERNATIO REGS	100.85	5.50	10/13/2021	276	282	278
TURKEY GOVERNMENT INTERNATIONA	77.80	4.88	4/16/2043	1,017	829	791
TURKEY GOVERNMENT INTERNATIONA	83.76	5.75	5/11/2047	807	651	676
TURKEY GOVERNMENT INTERNATIONA	86.25	6.00	1/14/2041	350	367	302
TURKEY GOVERNMENT INTERNATIONA	91.13	3.25	3/23/2023	290	268	264
TURKEY GOVERNMENT INTERNATIONA	93.34	6.75	5/30/2040	290	329	271
TURKEY GOVERNMENT INTERNATIONA	94.25	6.13	10/24/2028	596	593	562
TURKEY GOVERNMENT INTERNATIONA	95.00	6.00	3/25/2027	620	595	589
TURKEY GOVERNMENT INTERNATIONA	95.74	6.88	3/17/2036	200	230	191
TURKEY GOVERNMENT INTERNATIONA	97.53	5.75	3/22/2024	400	431	390
TURKEY GOVERNMENT INTERNATIONA	100.69	6.25	9/26/2022	340	376	342
TURKEY GOVERNMENT INTERNATIONA	101.40	5.63	3/30/2021	110	118	112
TURKEY GOVERNMENT INTERNATIONA	102.26	7.00	6/5/2020	210	235	215
TURKEY GOVERNMENT INTERNATIONA	102.40	7.63	4/26/2029	200	206	205
TURKEY GOVERNMENT INTERNATIONA	103.25	7.38	2/5/2025	600	713	620
UKRAINE GOVERNMENT INTERN REGS	98.22	7.38	9/25/2032	2,109	1,900	2,071
UKRAINE GOVERNMENT INTERN REGS	102.75	7.75	9/1/2027	476	443	489
UKRAINE GOVERNMENT INTERN REGS	102.96	7.75	9/1/2026	883	865	909
UKRAINE GOVERNMENT INTERN REGS	103.40	7.75	9/1/2025	1,291	1,233	1,335
UKRAINE GOVERNMENT INTERN REGS	104.25	7.75	9/1/2024	330	307	344
UKRAINE GOVERNMENT INTERN REGS	105.64	7.75	9/1/2022	200	184	211
UKRAINE GOVERNMENT INTERN REGS	105.75	7.75	9/1/2023	698	686	738

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UKRAINE GOVERNMENT INTERN REGS	108.87	8.99	2/1/2024	428	421	466
UKRAINE GOVERNMENT INTERN REGS	112.88	9.75	11/1/2028	1,240	1,295	1,400
UKRAINE RAILWAYS VIA SHOR REGS	102.12	9.88	9/15/2021	161	155	164
UKREXIMBANK VIA BIZ FINAN REGS	104.43	9.75	1/22/2025	430	402	449
URUGUAY GOVERNMENT INTERNATION	102.00	4.13	11/20/2045	420	338	428
URUGUAY GOVERNMENT INTERNATION	110.38	4.98	4/20/2055	1,218	1,212	1,345
URUGUAY GOVERNMENT INTERNATION	112.38	5.10	6/18/2050	360	318	405
URUGUAY GOVERNMENT INTERNATION	142.50	7.63	3/21/2036	500	632	713
URUGUAY GOVERNMENT INTERNATION	143.38	7.88	1/15/2033	670	853	961
VENEZUELA GOVERNMENT INTE REGS	25.75	7.75	10/13/2019	412	171	106
VENEZUELA GOVERNMENT INTE REGS	26.38	9.25	5/7/2028	583	232	154
VENEZUELA GOVERNMENT INTE REGS	26.50	8.25	10/13/2024	887	366	235
VENEZUELA GOVERNMENT INTE REGS	26.50	9.00	5/7/2023	354	143	94
VENEZUELA GOVERNMENT INTE REGS	28.00	11.75	10/21/2026	3,598	1,711	1,007
VENEZUELA GOVERNMENT INTE REGS	28.00	11.95	8/5/2031	5,984	2,770	1,675
VENEZUELA GOVERNMENT INTE REGS	28.00	12.75	8/23/2022	788	383	221
VENEZUELA GOVERNMENT INTERNATI	28.25	9.25	9/15/2027	982	389	277
VIETNAM GOVERNMENT INTERN REGS	102.13	6.75	1/29/2020	900	998	919
VIETNAM GOVERNMENT INTERN REGS	106.40	4.80	11/19/2024	658	660	700
WAKALA GLOBAL SUKUK BHD REGS	104.50	4.65	7/6/2021	280	306	293
WELLINGTON EMERGING LOCAL DEBT	6.54	-	(blank)	43,205	291,925	282,560
YPF SA REGS	101.22	8.75	4/4/2024	840	829	850
ZAMBIA GOVERNMENT INTERNA REGS	67.01	8.50	4/14/2024	380	319	255
ZAMBIA GOVERNMENT INTERNA REGS	67.02	8.97	7/30/2027	1,392	1,210	933
Emerging Market Debt				299,203	\$ 1,045,994	\$ 1,063,542
Emerging Market Debt Receivable						3,863
Total Emerging Market Debt					\$	1,067,405

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
High Yield Bonds / Bank Loans						
2018-A LTCG SECURITIZ A A 144A	\$ 101.05	4.59	6/15/2048	1,296	\$ 1,295	\$ 1,309
2Y-10 CMS CAP	0.12	-	5/7/2021	492	50	60
2Y-10 CMS CAP	0.18	-	5/10/2021	783	110	142
2Y-10 CMS CAP	0.23	-	5/10/2021	904	171	204
2Y-10 CMS CAP	0.23	-	5/8/2021	630	114	146
2Y-10 CMS CAP	0.23	-	5/10/2021	787	146	182
AASET 2017-1 TRUST 1A B 144A	103.33	5.93	5/16/2042	644	644	666
AASET 2018-2 US LTD 2A B 144A	101.88	5.43	11/18/2038	946	946	964
AASET 2019-1 TRUST 1 B 144A	100.00	4.95	5/15/2039	1,000	1,000	1,000
ABRA AUTO BODY/CALIBER	100.00	0.38	1/23/2026	936	936	936
ACCUNIA EUROPEAN CL 1A CR 144A	113.93	0.01	7/15/2030	470	534	535
ACCUNIA EUROPEAN CL 1A ER 144A	113.03	0.01	7/15/2030	250	283	283
ACCURIDE 11/17 TLB	87.38	0.02	11/17/2023	1,360	1,331	1,188
ACE SECURITIES CORP H ASP1 A2B	58.96	2.69	3/25/2037	1,512	958	892
ACE SECURITIES CORP HOM HE1 A1	65.96	2.64	1/25/2037	1,527	1,055	1,007
ACIS CLO 2015-6 LTD 6A C 144A	100.00	6.11	5/1/2027	1,250	1,214	1,250
ACOSTA 4/15 TLB1	35.97	0.02	9/26/2021	552	556	199
ACRISURE LLC / ACRISURE F 144A	90.25	7.00	11/15/2025	925	925	835
ACRISURE LLC / ACRISURE F 144A	103.25	8.13	2/15/2024	248	248	256
ADAGIO V CLO DAC X DR REGS	112.60	3.20	10/15/2031	2,675	3,152	3,012
AERCAP IRELAND CAPITAL DAC / A	101.47	4.25	7/1/2020	800	809	812
AFFORDABLE CARE 10/15 TL	97.00	0.60	10/24/2022	376	368	365
AIM AVIATION FINANC 1A B1 144A	101.13	5.07	2/15/2040	857	862	867
AKORN 11/13 COV-LITE TLB	92.63	-	4/16/2021	826	797	765
AKZONOBEL SPECIALTY CHEMICALS	98.29	0.37	10/1/2025	1,438	1,426	1,414
ALBERTSON'S 5/17 B5 TL	99.98	0.04	12/21/2022	1,961	1,941	1,961
ALBERTSON'S 5/17 B6 TL	99.85	0.02	6/22/2023	238	236	238
ALBERTSONS COS LLC / SAFE 144A	106.75	7.50	3/15/2026	314	314	335
ALESCO PREFERRED FU 9A A1 144A	91.75	2.70	6/23/2036	12,182	9,862	11,177
ALEXANDRIA REAL ESTATE EQUITIE	100.04	2.75	1/15/2020	2,600	2,596	2,601
ALIXPARTNERS 4/17 COV-LITE TLB	99.65	0.01	4/4/2024	932	932	929
ALLERGAN FUNDING SCS	100.64	3.69	3/12/2020	800	806	805
ALLIANCE DATA SYSTEMS COR 144A	102.94	5.88	11/1/2021	1,000	1,020	1,029
ALLIANT INSURANCE 4/18	97.01	0.09	5/9/2025	1,427	1,416	1,384
ALLISON TRANSMISSION INC 144A	99.25	4.75	10/1/2027	317	308	315
ALLISON TRANSMISSION INC 144A	105.25	5.88	6/1/2029	204	215	215
ALLTECH 12/16 UNSECURED TL	128.59	-	12/22/2020	92	0	118
ALLTECH 12/16 UNSECURED USD TL	99.16	-	7/21/2023	2,204	2,174	2,186
ALLY FINANCIAL INC	102.38	3.88	5/21/2024	375	371	384
ALM V LTD 5A CR3 144A	99.25	4.05	10/18/2027	1,570	1,579	1,558
ALTICE FINANCING SA 144A	102.50	6.63	2/15/2023	563	574	577
ALTICE FINCO SA 144A	103.00	8.13	1/15/2024	580	586	597
ALVOGEN PHARMA 6/18 COV-LITE	91.60	0.02	4/1/2022	933	922	854
AMAYA 6/18 (USD) TL	99.95	0.02	7/10/2025	1,248	1,246	1,247
AMC ENTERTAINMENT 3/19	99.70	0.09	3/20/2026	1,235	1,232	1,231
AMERICAN AIRLINES GROUP I 144A	103.03	5.00	6/1/2022	501	501	516
AMERICAN EQUITY INVESTMENT LIF	102.57	5.00	6/15/2027	1,226	1,225	1,258
AMERICAN HOME MORTGAGE 3 2A11	89.42	3.39	10/25/2046	1,011	923	904
AMERICAN HOME MORTGAGE A 1 1A2	89.78	2.67	5/25/2046	1,039	920	933
AMERICAN HOME MORTGAGE A 6 A2A	87.68	2.69	12/25/2046	1,005	886	881
AMERICAN TIRE DISTRIBUTORS	93.40	0.83	9/1/2021	8	8	8
AMERICAN TIRE DISTRIBUTORS	99.00	0.92	9/1/2023	13	13	12
AMERICAN TRAFFIC/ATS	100.21	0.02	2/21/2025	537	537	538
AMERICOLD 2010 LLC ARTA D 144A	105.34	7.44	1/14/2029	3,500	3,703	3,687

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Coupon Rate	Maturity Date	Shares	Book Value	Market Value
AMERIFORGE GROUP INC	56.00	-	(blank)	16	547	899
AMERIQUEST MORTGAGE SECU M3 A1	69.39	2.58	10/25/2036	1,667	1,122	1,157
AMNEAL PHARMACEUTICALS 3/18	99.15	0.02	5/4/2025	926	921	918
AMSTED INDUSTRIES INC 144A	102.38	5.38	9/15/2024	837	827	857
AMSTED INDUSTRIES INC 144A	104.25	5.63	7/1/2027	565	565	589
AMWINS 1/17 COV-LITE TLB	99.21	0.34	1/25/2024	937	934	929
ANCHORAGE CAPITAL C 3RA C 144A	96.84	4.43	1/28/2031	950	949	920
ANCHORAGE CREDIT FUN 1A C 144A	99.07	6.30	7/28/2030	2,000	2,000	1,981
ANCHORAGE CREDIT FUN 4A B 144A	99.17	4.50	2/15/2035	2,000	2,000	1,983
ANTHEM INC	102.15	4.35	8/15/2020	400	408	409
ANZ NEW ZEALAND INT'L LTD 144A	100.61	2.85	8/6/2020	800	798	805
AOT BEDDING 11/16 COV-LITE TL	64.38	0.33	11/8/2023	831	824	535
APERGY 4/18 TLB	99.63	5.88	4/18/2025	568	568	566
APEX TOOL GROUP LLC / BC 144A	89.25	9.00	2/15/2023	1,143	1,129	1,020
API HEAT TRANSFER 2/19	88.83	-	12/31/2022	0	12	0
API HEAT TRANSFER 2/19 EQUITY	27.00	-	12/31/2022	382	126	103
API HEAT TRANSFER THERMASYS	88.67	0.02	12/31/2023	357	336	316
APIDOS CLO XVIII 18A D 144A	98.45	5.74	10/22/2030	600	585	591
APOLLO AVIATION SECURITIZA 2 A	101.16	4.21	11/15/2041	1,111	1,111	1,124
APOLLO AVIATION SECURITIZA 2 B	100.90	5.93	11/15/2041	1,889	1,900	1,906
APOLLO AVIATION SECURITIZA 2 C	100.17	7.87	11/15/2041	404	404	405
APPLIED SYSTEMS 9/17 2ND LIEN	100.88	0.03	9/19/2025	372	375	376
APPLIED SYSTEMS 9/17 COV-LITE	99.04	0.01	9/19/2024	935	929	926
APPVION HLDG CORP	0.13	-	(blank)	2	-	0
APPVION HOLDINGS CORP	0.50	-	(blank)	2	-	1
AQUEDUCT EUROPEAN CL 4A C 144A	113.80	0.01	7/15/2032	515	577	586
AQUEDUCT EUROPEAN CL 4A D 144A	113.03	0.01	7/15/2032	800	896	904
ARBOUR CLO III DAC 3A ER 144A	109.59	4.35	3/15/2029	8,070	9,877	8,844
ARBY'S 1/18 COV-LITE TLB	98.64	0.20	2/5/2025	938	932	926
ARCTIC LNG CARRIERS 5/17 TL	98.00	0.02	5/18/2023	927	918	909
ARDAGH PACKAGING FINANCE 144A	105.38	7.25	5/15/2024	439	441	463
ARES EUROPEAN CLO IX 9X D REGS	109.01	2.40	10/14/2030	970	1,043	1,057
ARES XXV CLO LTD 3A SUB 144A	-	-	1/17/2024	2,750	1,268	-
ASPEN INSURANCE HOLDINGS LTD	104.47	6.00	12/15/2020	649	679	678
ASURION 7/17 2ND LIEN TLB2	101.31	0.02	8/4/2025	137	137	139
ASURION 7/17 TLB4	99.71	0.02	8/4/2022	847	843	845
ASURION 7/18 B7 COV-LITE TLB	99.75	0.02	11/3/2024	418	416	417
ATD NEW HLDGS INC	31.50	-	(blank)	1	23	43
ATHENAHEALTH 1/19 TLB	99.67	1.00	12/31/2022	946	935	943
ATLANTIC BROADBAND 8/17	98.95	-	1/3/2025	965	966	955
ATLAS 2014-1 12/14 SERIES A TL	96.72	-	3/18/2019	4,365	4,339	4,222
ATLAS SENIOR LOAN F 14A D 144A	99.99	0.01	7/20/2032	330	330	330
ATLAS SENIOR LOAN F 14A E 144A	97.88	0.01	7/20/2032	265	260	259
ATLAS SENIOR LOAN F 1A CR 144A	96.87	4.28	11/17/2027	565	548	547
ATLAS SENIOR LOAN FU 9A C 144A	98.71	4.39	4/20/2028	355	355	350
ATRIUM XIII 13A D 144A	96.34	5.29	11/21/2030	250	250	241
AUDIO VISUAL SERVICES 2/18 TL	97.03	0.43	2/21/2025	1,091	1,089	1,058
AURIUM CLO II DAC 2X ER REGS	113.93	0.01	10/13/2029	131	146	149
AVANTOR INC 144A	106.40	6.00	10/1/2024	89	93	95
AVENTURA MALL TRUST AVM A 144A	101.44	3.87	12/5/2032	1,660	1,678	1,684
AVENTURA MALL TRUST AVM E 144A	101.44	3.87	12/5/2032	100	101	101
AVERY POINT III CL 3A INC 144A	19.39	-	1/18/2025	2,500	766	485
AVERY POINT III CLO 3A D 144A	100.01	6.30	1/18/2025	1,230	1,152	1,230
AVERY POINT IV CLO 1A CR 144A	100.10	4.93	4/25/2026	380	381	380
AVERY POINT V CLO L 5A AR 144A	100.05	3.57	7/17/2026	2,219	2,219	2,220

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2018-2019 ANNUAL INVESTMENT REPORT

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AVERY POINT VI CLO 6A CR 144A	98.62	4.73	8/5/2027	2,000	2,000	1,972
AXIS SPECIALTY FINANCE LLC	103.10	5.88	6/1/2020	2,500	2,580	2,577
BAIN CAPITAL CREDIT 2A C 144A	95.96	4.49	7/19/2031	660	660	633
BANC OF AMERICA MORTGAG 1 2A17	97.14	6.00	1/25/2037	890	821	865
BARDIN HILL LOAN ADV 1A D 144A	114.15	0.01	7/20/2032	1,565	1,751	1,786
BARINGS CLO LTD 2018 3A E 144A	96.40	8.34	7/20/2029	2,325	2,252	2,241
BARINGS EURO CLO 201 1X D REGS	113.18	2.90	10/15/2030	2,170	2,373	2,456
BARRACUDA NETWORKS 1/18 TLB	99.88	0.61	1/10/2025	859	850	858
BASS PRO SHOPS 11/16 COV-LITE	95.35	0.02	9/25/2024	1,878	1,863	1,791
BAT CAPITAL CORP	99.79	2.30	8/14/2020	225	222	225
BATTALION CLO IX LT 9A DR 144A	97.92	5.85	7/15/2031	3,165	3,165	3,099
BAUSCH HEALTH AMERICAS IN 144A	109.95	8.50	1/31/2027	212	219	233
BAUSCH HEALTH COS INC 144A	101.16	5.88	5/15/2023	82	67	83
BAUSCH HEALTH COS INC 144A	102.12	6.13	4/15/2025	544	422	556
BAUSCH HEALTH COS INC 144A	111.73	9.00	12/15/2025	601	593	671
BAYER US FINANCE LLC 144A	99.87	2.38	10/8/2019	1,500	1,497	1,498
BEAR STEARNS ASSET BACK HE9 2A	97.52	2.54	11/25/2036	1,440	1,401	1,404
BELK 12/15 COV-LITE TL	80.51	0.97	12/12/2022	526	447	423
BENEFIT STREET PA VIIA CR 144A	98.66	5.00	7/18/2027	985	985	972
BENEFIT STREET PAR VIIA D 144A	99.11	7.95	7/18/2027	1,320	1,304	1,308
BENEFIT STREET PART 8A CR 144A	95.34	5.34	1/20/2031	1,575	1,575	1,502
BERRY PLASTICS 5/19 COV-LITE	99.26	-	5/15/2026	1,063	1,060	1,055
BIOGEN INC	100.50	2.90	9/15/2020	1,750	1,751	1,759
BIOPLAN 5/15 COV-LITE TL	91.00	0.02	9/23/2021	636	557	579
BLACK DIAMOND CLO 20 2X E REGS	109.27	5.10	1/20/2032	1,525	1,699	1,666
BLACKROCK EUROPEAN 7A C1 144A	114.35	2.30	10/15/2031	480	546	549
BLACKSTONE CQP 5/19 TLB	100.10	0.08	12/31/2022	665	665	666
BLOCK COMMUNICATIONS INC 144A	104.25	6.88	2/15/2025	1,315	1,323	1,371
BLUE NILE 1/17 TL	88.00	0.75	1/20/2023	450	437	396
BLUEMOUNTAIN EUR CL 1X ER REGS	106.14	0.01	4/25/2032	600	628	637
BMC SOFTWARE 6/18 (USD)	94.53	0.02	10/2/2025	566	561	535
BOMGAR 4/18 TL	98.94	1.12	4/17/2025	218	217	215
BOYD 8/18 2ND LIEN COV-LITE TL	92.15	0.03	9/6/2026	397	386	366
BOYD 8/18 COV-LITE TLB	94.44	0.02	9/6/2025	765	761	722
BOYD 8/18 COV-LITE TLB	94.44	0.02	9/6/2025	199	198	187
BOYD GAMING 3/17 COV-LITE TLB	99.36	0.04	9/15/2023	540	538	536
BOYNE USA INC 144A	108.25	7.25	5/1/2025	1,185	1,217	1,283
BRAZIL LETRAS DO TESOUREO NACIO	25.31	-	1/1/2020	24,500	5,856	6,202
BRAZIL LETRAS DO TESOUREO NACIO	25.67	-	10/1/2019	18,100	4,524	4,647
BRICKMAN GROUP/BRIGHTVIEW	99.75	0.16	8/15/2025	560	559	559
BRINKER INTERNATIONAL INC 144A	101.88	5.00	10/1/2024	495	505	504
BROADCOM CORP / BROADCOM CAYMA	99.83	2.38	1/15/2020	800	795	799
BURGER KING 2/17 COV-LITE TLB3	99.17	0.01	2/16/2024	944	935	936
BWAY 3/17 TLB	96.46	1.38	4/3/2024	974	954	939
BWAY 3/17 TLB	96.46	2.26	4/3/2024	1,166	1,126	1,124
CA INC	100.89	5.38	12/1/2019	380	386	383
CABLE & WIRELESS 2/18 TLB4	100.13	0.02	1/30/2026	1,234	1,233	1,235
CABLEVISION SYSTEMS 3/17 TLB	98.28	0.17	7/17/2025	1,385	1,375	1,362
CAESARS ENTERTAINMENT	98.75	0.07	12/20/2024	1,348	1,344	1,331
CAESARS RESORT 12/17 COV-LITE	98.23	0.01	12/23/2024	1,408	1,405	1,383
CAIRN CLO III BV 3X DR REGS	113.81	2.50	10/20/2028	1,895	2,239	2,157
CAIRN CLO IV BV 4A DRR 144A	114.16	3.80	4/30/2031	1,405	1,589	1,604
CALUMET SPECIALTY PRODUCTS PAR	96.75	7.63	1/15/2022	807	806	781
CAMPING WORLD 11/16 COV-LITE	92.00	0.39	11/8/2023	1,034	1,030	951
CANYON CAPITAL CLO 1A CR 144A	97.30	4.50	7/15/2031	1,500	1,500	1,460

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CAPITAL ONE FINANCIAL CORP	100.10	3.03	10/30/2020	800	801	801
CAPMARK MILITARY H AET2 A 144A	115.05	6.06	10/10/2052	954	955	1,097
CARLSON TRAVEL INC 144A	99.75	9.50	12/15/2024	824	792	822
CARLYLE GLOBAL MAR 2X CRR REGS	113.14	3.25	11/17/2031	2,465	2,834	2,789
CARLYLE GLOBAL MARK 1X DR REGS	112.28	2.90	7/15/2031	1,570	1,827	1,763
CARLYLE GLOBAL MARK 3RA C 144A	97.20	5.53	7/27/2031	1,740	1,740	1,691
CARLYLE GLOBAL MARK 4RA C 144A	94.95	5.50	7/15/2030	510	510	484
CARLYLE US CLO 2017- 4A C 144A	96.00	5.40	1/15/2030	740	714	710
CASCADE FUNDING MOR RM2 A 144A	102.12	4.00	10/25/2068	928	924	948
CASPIAN SC HOLDINGS	1.34	-	(blank)	168,028	168,028	224,376
CAST & CREW ENTERTAINMENT 1/19	100.33	0.02	1/16/2026	648	647	650
CASTLE PARK CLO DAC 1X D REGS	113.77	5.29	1/15/2028	650	689	739
CASTLE PARK CLO DAC 1X E REGS	110.05	6.19	1/15/2028	3,405	3,907	3,747
CASTLELAKE AIRCRAFT SECURI 1 A	100.87	4.45	8/15/2041	2,500	2,499	2,521
CATALENT PHARMA 5/19	99.92	-	5/8/2026	664	665	663
CATHEDRAL LAKE CLO 1A BR 144A	98.25	4.90	10/15/2029	3,060	3,061	3,006
CATSKILL PARK CLO LT 1A C 144A	100.01	6.29	4/20/2029	750	747	750
CB144A APPVION ESC	-	9.00	6/1/2020	1,620	-	-
CBAM 2018-5 LTD 5A B1 144A	98.83	3.99	4/17/2031	1,575	1,544	1,557
CCC INFORMATION 3/17 COV-LITE	98.53	-	4/29/2024	656	654	647
CCO HOLDINGS LLC / CCO HO 144A	102.12	5.00	2/1/2028	1,844	1,830	1,883
CCO HOLDINGS LLC / CCO HO 144A	105.50	5.88	5/1/2027	833	825	879
CCP CDX BP UL CDX.NA.IG.31.V1	(2.26)	-	12/20/2023	47,470	0	(1,073)
CCP CDX BP UL CDX.NA.IG.31.V1	-	1.00	12/20/2023	(47,470)	(575)	-
CCP IRS R US0003M P 3.14395%	(3.15)	2.57	11/6/2021	61,800	16	(1,945)
CCP IRS R US0003M P 3.18%	(6.01)	2.56	11/7/2023	9,700	0	(583)
CCP_IRS R US0003M P 3.14395%	-	3.14	11/6/2021	(61,800)	(0)	-
CCP_IRS R US0003M P 3.18%	-	3.18	11/7/2023	(9,700)	(2)	-
CDS BP UL L BRAND INC	-	1.00	6/20/2024	(30)	(0)	-
CDS BP UL L BRAND INC	8.73	-	6/20/2024	30	3	3
CDX BP NA.IG.31 7-15%	(2.04)	-	12/20/2023	740	1	(15)
CDX BP NA.IG.31 7-15%	-	1.00	12/20/2023	(740)	(0)	-
CDX BP TRNCH IG31 7-15	(2.04)	-	12/20/2023	740	5	(15)
CDX BP TRNCH IG31 7-15	-	1.00	12/20/2023	(740)	(0)	-
CDX BP UL CDX.NA.IG.31 7%-15%	(2.04)	-	12/20/2023	750	3	(15)
CDX BP UL CDX.NA.IG.31 7%-15%	-	1.00	12/20/2023	(750)	(0)	-
CDX BP UL CDX.NA.IG.31 7-15%	(2.04)	-	12/20/2023	1,870	2	(38)
CDX BP UL CDX.NA.IG.31 7-15%	-	1.00	12/20/2023	(1,870)	(3)	-
CDX TRANCHE BP UL IG.31 7-15%	(2.04)	-	12/20/2023	1,540	0	(31)
CDX TRANCHE BP UL IG.31 7-15%	-	1.00	12/20/2023	(1,540)	(10)	-
CDX TRNCH BP IG.31 7-15%	(2.04)	-	12/20/2023	1,510	0	(31)
CDX TRNCH BP IG.31 7-15%	-	1.00	12/20/2023	(1,510)	(0)	-
CDX TRNCH BP UL IG.31 7-15%	(2.04)	-	12/20/2023	340	0	(7)
CDX TRNCH BP UL IG.31 7-15%	-	1.00	12/20/2023	(340)	(1)	-
CDX TRNCH BP UL NA.IG.31 7-15%	(2.04)	-	12/20/2023	1,540	0	(31)
CDX TRNCH BP UL NA.IG.31 7-15%	-	1.00	12/20/2023	(1,540)	(2)	-
CDX_BP UL CDX.NA.IG.31 7-15%	(2.04)	-	12/20/2023	1,450	4	(30)
CDX_BP UL CDX.NA.IG.31 7-15%	-	1.00	12/20/2023	(1,450)	(0)	-
CDX_TRANCHE BP UL IG.31 7-15%	(2.04)	-	12/20/2023	1,540	0	(31)
CDX_TRANCHE BP UL IG.31 7-15%	-	1.00	12/20/2023	(1,540)	(9)	-
CENGAGE LEARNING INC 144A	95.00	9.50	6/15/2024	204	175	194
CENTRAL GARDEN & PET CO	98.25	5.13	2/1/2028	525	488	516
CENTURYLINK 5/17 COV-LITE TLB	97.56	0.01	1/31/2025	1,486	1,476	1,450
CENTURYLINK 5/17 COV-LITE TLB	97.56	0.01	1/31/2025	1,924	1,893	1,877
CEQUEL/SUDDENLINK 10/18 TLB	98.31	0.17	1/15/2026	1,019	1,017	1,002

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CERBERUS LOAN FUNDIN 3A A 144A	99.49	5.13	1/15/2028	3,000	3,000	2,985
CERTARA 3/18 COV-LITE TL	99.25	-	8/15/2024	244	243	242
CETERA FINANCIAL 8/18 COV-LITE	97.38	0.02	8/15/2025	199	199	194
CGBAM COMMERCIAL M SMRT B 144A	100.43	3.21	4/10/2028	2,000	2,004	2,009
CGBAM COMMERCIAL M SMRT F 144A	100.85	3.91	4/10/2028	1,000	1,006	1,008
CHARTER COMM OPERATING 12/17	99.85	0.01	4/30/2025	721	715	720
CHARTER NEX 5/17 COV-LITE TLB	98.04	-	5/16/2024	953	953	934
CHENIERE CORPUS CHRISTI HOLDIN	108.63	5.13	6/30/2027	76	76	83
CHENIERE ENERGY PARTNERS 144A	105.50	5.63	10/1/2026	1,500	1,500	1,583
CHI OVERHEAD 7/15 TL	99.31	-	7/29/2022	941	934	934
CIFC FUNDING 2013 2A B1LR 144A	97.26	5.65	10/18/2030	310	301	302
CIFC FUNDING 2014 1A DR2 144A	96.25	5.45	1/18/2031	250	241	241
CIFC FUNDING 2015-I 2A DR 144A	98.78	5.05	4/15/2027	1,200	1,200	1,185
CIFC FUNDING 2015-V 5A CR 144A	99.44	5.53	10/25/2027	315	311	313
CIGNA CORP 144A	100.92	3.20	9/17/2020	670	671	676
CINEWORLD 2/18 (USD) COV-LITE	98.28	0.01	2/28/2025	1,441	1,429	1,416
CITGO HOLDING INC 144A	103.50	10.75	2/15/2020	2,000	2,058	2,070
CITIGROUP MORTGAGE LO AMC3 A2C	86.52	0.46	3/25/2037	2,458	2,133	2,127
CITIMORTGAGE ALTERNATIV A7 2A1	80.64	2.88	7/25/2037	1,032	886	832
CITYCENTER 4/17 COV-LITE TLB	99.54	0.01	4/18/2024	1,416	1,411	1,409
CLEAR CHANNEL WORLDWIDE H 144A	108.50	9.25	2/15/2024	218	218	237
CLUBCORP 8/17 COV-LITE TLB	-	0.01	9/18/2024	-	-	-
CNO FINANCIAL GROUP INC	108.25	5.25	5/30/2029	821	821	889
COCA-COLA EUROPEAN PARTNERS PL	101.16	3.50	9/15/2020	2,000	2,020	2,023
COLFAX CORP 144A	107.25	6.38	2/15/2026	155	155	166
COLLEGE AVENUE STUDE A A1 144A	101.58	4.05	11/26/2046	1,882	1,882	1,911
COMMSCOPE 1/19 TLB	99.60	-	2/6/2026	652	648	649
COMMSCOPE INC 144A	101.99	8.25	3/1/2027	321	321	327
COMMSCOPE TECHNOLOGIES LL 144A	93.72	6.00	6/15/2025	255	237	239
CONSOLIDATED ENERGY 5/18 TLB	97.25	0.22	5/2/2025	844	815	821
CONSTELLATION BRANDS INC	99.79	2.25	11/6/2020	190	187	190
CONTEGO CLO II BV 2A ER 144A	113.88	4.89	11/15/2026	1,860	2,164	2,118
COREL 6/19 COV-LITE TL	95.25	-	6/26/2026	779	740	742
COTY 3/18 (USD) TLB	97.50	0.30	3/28/2025	1,447	1,425	1,410
COVIA/UNIMIN 4/18 TL	80.36	1.57	4/9/2025	779	780	626
CPI CARD GROUP 8/15 COV-LITE	79.00	1.63	8/17/2022	400	255	316
CREATIVE ARTISTS 2/18 COV-LITE	99.60	0.09	2/15/2024	655	654	652
CREDIT AGRICOLE CORPORATE 144A	100.00	0.01	5/3/2021	3,550	3,550	3,550
CREDIT SUISSE AG/NEW YORK NY	100.11	3.14	7/31/2020	760	760	761
CREDIT SUISSE EUROP 1HA A REGS	113.90	2.50	4/15/2020	14,376	16,768	16,374
CREDIT SUISSE EUROP 1HB B REGS	113.90	5.00	4/15/2020	3,599	4,197	4,099
CREDIT SUISSE GROUP FUNDING GU	100.16	2.75	3/26/2020	250	249	250
CREDITSHOP CREDIT CAR 1 B 144A	100.00	10.46	10/15/2022	9,726	9,726	9,726
CROSBY WORLDWIDE 11/13	-	0.12	11/23/2020	-	-	-
CROSBY WORLDWIDE 6/19 COV-LITE	99.04	-	6/19/2026	765	759	758
CROWN POINT CLO I 3A A1BR 144A	99.72	3.51	12/31/2027	1,000	1,000	997
CSC HOLDINGS LLC 144A	109.78	7.50	4/1/2028	1,250	1,250	1,372
CTI FOODS 5/19 FIRST OUT TL	100.00	-	5/3/2024	71	70	71
CTI FOODS 5/19 SECOND OUT TL	95.00	-	5/3/2024	43	42	41
CTI FOODS HOLDING CO LLC	125.84	-	7/10/2019	1	251	128
CVENT 6/16 COV-LITE TL	98.75	-	11/29/2023	496	489	490
DAE AVIATION (STANDARD AERO)	100.36	0.02	1/23/2026	633	632	635
DAE AVIATION (STANDARD AERO)	100.36	0.02	1/23/2026	340	340	342
DARTRY PARK CLO DAC 1X CR REGS	114.16	2.95	4/28/2029	865	1,010	988
DARTRY PARK CLO DAC 1X D REGS	113.90	5.65	4/28/2029	1,245	1,449	1,418

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DATATEL 1/17 COV-LITE TLB	99.68	-	9/30/2022	1,364	1,344	1,360
DELL 10/17 COV-LITE TLB	99.44	0.01	9/7/2023	945	930	940
DIAMOND CLO 2018-1 L 1A C 144A	97.53	5.19	7/22/2030	2,000	2,000	1,951
DIAMOND HEAD AVIATION 1 A 144A	100.29	3.81	7/14/2028	191	189	192
DIEBOLD 5/17(USD) TLB	93.30	0.29	11/6/2023	1,360	1,220	1,269
DISCOVER BANK	100.48	3.10	6/4/2020	800	800	804
DISH DBS CORP	97.00	7.75	7/1/2026	606	651	588
DIVERSEY 9/17 (USD) COV-LT TL	87.75	0.96	9/6/2024	1,593	1,579	1,398
DOLLAR TREE INC	104.24	4.00	5/15/2025	3	11	4
DONNELLEY FINANCIAL SOLUTIONS	99.38	0.30	9/29/2023	80	79	79
DONNELLEY FINANCIAL SOLUTIONS	103.50	8.25	10/15/2024	475	505	492
DREW MARINE 11/13 TL	99.75	-	11/19/2020	0	0	0
DRUG ROYALTY II LP 2 1 A2 144A	99.94	3.48	7/15/2023	190	189	190
DRYDEN 30 SENIOR L 30A ER 144A	96.60	8.43	11/15/2028	1,780	1,744	1,719
DRYDEN 35 EURO CLO 35X E REGS	114.05	5.09	5/17/2027	270	284	308
DRYDEN 35 EURO CLO 35X F REGS	111.95	6.42	5/17/2027	2,045	2,404	2,289
DRYDEN 41 SENIOR 41A SUB 144A	63.03	-	4/15/2031	1,200	1,024	756
DRYDEN 54 SENIOR LO 54A D 144A	98.29	5.69	10/19/2029	250	251	246
DRYDEN 56 EURO CLO 56X C REGS	110.75	0.01	1/15/2032	340	376	377
DRYDEN 59 EURO CLO 59X C1 REGS	108.76	0.01	5/15/2032	1,520	1,654	1,653
DTZ/CUSHMAN 8/18 COV-LITE TLB	99.54	0.02	8/21/2025	1,219	1,217	1,214
DUFF & PHELPS 12/17 COV-LITE	96.77	0.02	2/13/2025	1,262	1,259	1,221
DUPONT (E.I.) DE NEMOURS 3/18	96.98	-	3/26/2025	590	572	572
DYNACAST 5/15 TLB1	96.25	-	1/28/2022	952	950	917
DYNAGAS LNG PARTNERS LP / DYNA	96.00	6.25	10/30/2019	500	502	480
EMPIRE GENERATING 3/14 TLB	-	0.49	3/12/2021	-	-	-
EMPIRE GENERATING 3/14 TLC	-	0.49	3/12/2021	-	-	-
ENCORE CAPITAL TRUST III	99.53	0.04	7/1/2037	4,400	4,400	4,379
ENDO DAC / ENDO FINANCE L 144A	67.00	6.00	2/1/2025	1,242	1,086	832
ENDO PHARMACEUTICALS 4/17	93.67	-	4/29/2024	1,229	1,220	1,151
ENERGIZER 12/18 TLB	99.56	0.40	6/20/2025	754	750	751
ENERGIZER HOLDINGS INC 144A	108.23	7.75	1/15/2027	383	402	415
ENVISION HEALTHCARE CORP 144A	69.75	8.75	10/15/2026	1,218	1,112	850
EPICOR 6/15 (MUL) COV-LITE RC	98.45	-	6/1/2020	188	188	185
EPICOR 6/15 (USD) RC	98.45	-	6/1/2020	563	563	554
EPICOR 6/15 COV-LITE TL	99.27	0.02	6/1/2022	1,394	1,371	1,384
EQUINIX INC	107.20	5.38	5/15/2027	565	581	606
ERNA 1 A	114.06	0.01	7/25/2031	3,322	3,717	3,789
ERNA 1 B	114.05	0.01	7/25/2031	795	888	907
ERP OPERATING LP	101.72	4.75	7/15/2020	100	102	102
EURO GARAGES/EG GROUP 3/18	98.21	0.02	2/7/2025	1,058	1,048	1,039
EURO GARAGES/EG GROUP 3/18 2ND	98.75	-	3/23/2026	386	382	381
EW SCRIPPS 3/19 INCREMENTAL	99.71	0.01	4/3/2026	566	565	565
EXCELITAS 11/17 (USD) TL	99.63	0.02	12/2/2024	349	348	348
EXCELITAS 11/17 2ND LIEN TL	99.83	2.47	11/15/2025	188	186	188
EXELON CORP	100.32	2.85	6/15/2020	800	799	803
EXGEN TEXAS (LX173402)	39.31	-	(blank)	39	1,894	1,539
EXGEN TEXAS 9/14 COV-LITE TL	-	3.38	9/18/2021	-	-	-
EXPRESS OIL 2/18 TL	97.88	-	12/31/2021	1,282	1,269	1,254
EXPRESS OIL/MAVIS TIRE 3/18	94.75	0.20	3/20/2023	181	160	172
EXPRESS OIL/MAVIS TIRE 3/18	97.88	-	3/20/2025	163	162	159
EXTENDED STAY 5/18 TLB	99.81	0.01	8/30/2023	660	656	658
FAIR SQUARE FINANCIAL	100.00	-	8/20/2019	12,467	12,467	12,467
FALCON AEROSPACE LTD 1 A 144A	101.45	4.58	2/15/2042	1,458	1,458	1,479
FALCON AEROSPACE LTD 1 B 144A	104.16	6.30	2/15/2042	1,130	1,124	1,176

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FDI LTD 1A A 144A	100.02	4.40	11/12/2030	1,000	999	1,000
FDI LTD 1A D 144A	98.90	7.50	11/12/2030	2,000	1,965	1,978
FDI LTD 2A B 144A	99.98	5.29	5/12/2031	2,000	1,998	2,000
FDI LTD 2A C 144A	99.94	6.29	5/12/2031	1,000	999	999
FIELDWOOD ENERGY 4/18 2ND LIEN	83.00	0.03	4/11/2023	2,966	2,314	2,462
FIELDWOOD ENERGY INC	30.00	-	(blank)	19	922	561
FIRST DATA 11/17 TL	99.88	0.07	4/26/2024	939	938	938
FIRST DATA CORP 144A	102.81	5.75	1/15/2024	567	568	583
FIRST NLC TRUST 2007 1 A1 144A	62.98	2.56	8/25/2037	1,550	981	976
FIRST NLC TRUST 2007 1 A4 144A	64.90	2.77	8/25/2037	1,561	1,019	1,013
FIRST QUANTUM MINERALS LT 144A	92.75	6.88	3/1/2026	445	445	413
FIRST QUANTUM MINERALS LT 144A	93.50	6.50	3/1/2024	800	800	748
FIRST QUANTUM MINERALS LT 144A	95.25	7.50	4/1/2025	746	735	711
FIRSTKEY MASTER FUN R1 M4 144A	94.57	2.71	11/3/2041	2,500	2,240	2,364
FIRSTLIGHT FIBER 5/18 TL	98.67	0.02	7/23/2025	269	268	266
FISERV INC	100.20	2.70	6/1/2020	2,600	2,593	2,605
FLAGSHIP VII LTD 7A A1R 144A	100.03	3.71	1/20/2026	313	313	313
FLEETPRIDE 12/18 COV-LITE TL	98.38	0.02	12/19/2025	659	654	648
FMG RESOURCES AUGUST 2006 144A	103.38	5.13	3/15/2023	495	498	512
FNMA POOL #0AN0285	99.70	1.95	11/1/2020	550	548	548
FNMA POOL #0BF0177	100.86	3.00	2/1/2057	1,876	1,865	1,892
FRONTDOOR INC 144A	106.50	6.75	8/15/2026	333	347	355
FRONTIER COMMUNICATIONS C 144A	97.00	8.50	4/1/2026	530	493	514
GALAXY XXI CLO LTD 21A DR 144A	95.57	5.24	4/20/2031	750	713	717
GALAXY XXVII CLO LT 27A C 144A	96.00	0.01	5/16/2031	705	676	677
GARDA WORLD 5/17(USD) COV-LITE	99.21	0.45	5/12/2024	939	942	931
GARDNER DENVER 8/17 (USD)	100.06	0.01	7/30/2024	636	636	636
GATES GLOBAL 11/17 (USD)	99.30	0.01	4/1/2024	652	633	647
GATES GLOBAL LLC / GATES 144A	100.06	6.00	7/15/2022	954	902	955
GCI LLC	100.00	6.75	6/1/2021	1,400	1,446	1,400
GCI LLC	104.25	6.88	4/15/2025	720	731	751
GCI LLC 144A	104.78	6.63	6/15/2024	238	238	249
GENESIS ENERGY LP / GENESIS EN	96.25	5.63	6/15/2024	575	548	553
GENESIS ENERGY LP / GENESIS EN	97.75	6.50	10/1/2025	1,435	1,444	1,403
GENESYS 2/18 (USD) COV-LITE	98.75	0.02	12/1/2023	940	926	928
GEORGIA-PACIFIC LLC 144A	103.94	5.40	11/1/2020	3,400	3,533	3,534
GFL ENVIRONMENTAL 5/18	98.29	0.02	5/30/2025	1,430	1,415	1,406
GIVE & GO 8/17 COV-LITE TL	91.44	0.02	7/29/2023	1,126	1,123	1,030
GLENN POOL OIL & GAS TRUST II	98.50	6.00	8/2/2021	2,654	2,638	2,614
GLOBAL CASH ACCESS 4/17 TLB	99.75	-	5/9/2024	686	686	684
GLOBAL SC FINANCE II 1A A 144A	99.87	2.98	4/17/2028	767	759	766
GLOBALFOUNDRIES 5/19 (USD)	98.25	0.34	6/5/2026	1,150	1,139	1,130
GO DADDY OPERATING CO LLC 144A	103.50	5.25	12/1/2027	322	322	333
GOLDEN NUGGET INC 144A	105.00	8.75	10/1/2025	975	975	1,024
GOLDEN NUGGET/LANDRYS 9/17	99.08	0.19	10/4/2023	941	930	932
GOLUB CAPITAL BDC C 1A BR 144A	98.48	4.17	4/25/2026	3,350	3,350	3,299
GOLUB CAPITAL PART 25A BR 144A	97.52	4.63	5/5/2030	2,000	2,000	1,950
GOLUB CAPITAL PARTN 36A C 144A	92.28	4.67	2/5/2031	2,000	2,000	1,846
GRAND HARBOUR CLO 20 1A C 144A	113.88	0.01	3/15/2032	250	284	285
GRAY TELEVISION 10/18	99.85	0.36	11/2/2025	654	652	653
GREATBATCH/INTEGER 11/17 TLB	100.07	0.34	10/27/2022	891	882	892
GRIFFON CORP	99.50	5.25	3/1/2022	195	190	194
GRIFOLS 1/17 TLB	99.67	0.01	1/31/2025	770	770	767
GROSVENOR PLACE CL 1X BRR REGS	112.56	1.60	10/30/2029	975	1,197	1,097
GROSVENOR PLACE CL 1X DRR REGS	114.33	5.40	10/30/2029	2,165	2,618	2,475

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GROSVENOR PLACE CL 1X ERR REGS	112.18	7.25	10/30/2029	115	138	129
GS MORTGAGE SECURI STAY E 144A	97.57	4.62	7/15/2032	1,900	1,900	1,854
GSAA HOME EQUITY TRUST 12 A2A	61.53	2.64	8/25/2036	1,427	925	878
GSAA HOME EQUITY TRUST 20 7 A4	96.98	2.67	7/25/2037	486	432	471
GSAMP TRUST 2007-NC1 NC1 A1	64.77	2.62	12/25/2046	1,441	994	933
GTT 5/18 (USD) COV-LITE TL	89.38	-	5/31/2025	970	964	867
HALCYON LOAN ADVISOR 1A C 144A	95.92	5.79	7/21/2031	535	535	513
HARLAND CLARKE 10/17 B7	86.17	-	11/1/2023	0	0	0
HARVEST CLO X DA 10X DRNE REGS	114.10	2.54	11/15/2028	1,850	2,153	2,111
HARVEST CLO X DAC 10X DR REGS	114.10	2.54	11/15/2028	1,910	2,222	2,179
HARVEST CLO X DAC 10X E REGS	113.04	4.69	11/15/2028	2,705	3,186	3,058
HARVEST CLO XIV DA 14A ER 144A	111.95	4.65	11/18/2029	4,080	4,833	4,568
HAYFIN KINGSLAND IX 9A CR 144A	97.76	4.93	4/28/2031	2,730	2,730	2,669
HERTZ VEHICLE FINANC 1A A 144A	100.11	2.73	3/25/2021	700	699	701
HEXION 6/19 EXIT (USD)	99.88	-	6/26/2026	960	958	958
HIGHBRIDGE LOAN MANA 18 B 144A	96.95	4.45	7/18/2031	1,860	1,860	1,803
HIGHLAND PARK CDO I 1A A2 144A	99.14	3.05	11/25/2051	595	544	589
HILEX POLY/NOVOLEX 6/18	94.71	0.41	6/29/2025	177	176	167
HILLMAN 5/18 COV-LITE TLB	96.13	-	5/16/2025	198	197	190
HILTON DOMESTIC OPERATING 144A	103.00	4.88	1/15/2030	322	322	332
HOLLAND PARK CLO DAC 1X D REGS	114.10	4.44	5/14/2027	4,915	5,259	5,608
HOLLAND PARK CLO DAC 1X E REGS	111.03	5.44	5/14/2027	1,275	1,501	1,416
HOME EQUITY LOAN TRU FRE1 1AV1	94.52	2.68	4/25/2037	1,062	1,009	1,004
HORNBLOWER 3/18 COV-LITE TL	99.88	-	3/28/2025	566	566	565
HOUGHTON MIFFLIN 5/15 COV-LITE	94.15	-	5/11/2021	985	956	927
HUB INTERNATIONAL 4/18 (USD)	97.42	1.01	4/25/2025	1,434	1,409	1,397
HUDSONS BAY 8/15 COV-LITE TLB	99.84	0.43	9/30/2022	572	559	571
HUGHES SATELLITE SYSTEMS CORP	102.75	5.25	8/1/2026	540	529	555
HUGHES SATELLITE SYSTEMS CORP	105.13	6.63	8/1/2026	403	401	424
HYPERION INSURANCE 12/17 (USD)	99.71	-	12/20/2024	673	669	671
ICAHN ENTERPRISES LP / IC 144A	101.38	6.25	5/15/2026	638	638	647
ICAHN ENTERPRISES LP / ICAHN E	102.08	6.38	12/15/2025	1,150	1,150	1,174
ICAHN ENTERPRISES LP / ICAHN E	102.38	6.25	2/1/2022	450	464	461
IGLO BIRDS EYE 12/17 (USD)	98.66	-	5/15/2024	675	672	666
II-VI 5/19 TLB	98.44	-	5/8/2026	350	347	345
IMG WORLDWIDE 5/18 TLB	96.33	0.01	5/18/2025	1,991	1,963	1,918
IMMUCOR 6/17 TL	99.63	0.02	6/25/2021	331	332	330
INFOR (LAWSON) 2/17 (USD) B6	99.68	0.01	2/1/2022	938	917	935
INFORMATICA 1/18 (USD)	100.04	-	8/5/2022	1,421	1,389	1,422
INSIGHT FOURTH HOSPITALITY 1ST	127.27	-	7/15/2021	809	1,239	1,030
INTELSAT CONNECT FINANCE 144A	88.50	9.50	2/15/2023	701	687	620
INTELSAT JACKSON 11/17 TLB3	98.88	0.05	11/30/2023	2,345	2,331	2,318
INTELSAT JACKSON HOLDINGS 144A	99.00	8.50	10/15/2024	1,500	1,500	1,485
INTELSAT JACKSON HOLDINGS 144A	102.00	9.75	7/15/2025	149	157	152
ION MEDIA 5/17 TL	99.75	0.01	12/18/2020	1,396	1,385	1,392
ION TRADING TECHNOLOGIES 5/18	96.73	-	11/21/2024	978	978	946
ISRAEL GOVERNMENT BOND - FIXED	29.39	5.00	1/31/2020	4,400	1,288	1,293
JACKS FAMILY 5/18 COV-LITE TLB	98.50	0.02	4/5/2024	1,816	1,800	1,788
JACKSON MILL CLO LT 1A CR 144A	98.05	4.45	4/15/2027	1,000	1,000	981
JAMAICA MERCHANT VOUCHER	100.50	0.41	7/8/2022	1,365	1,365	1,372
JAMES HARDIE INTERNATIONA 144A	99.50	5.00	1/15/2028	355	351	353
JAMES HARDIE INTERNATIONA 144A	102.00	4.75	1/15/2025	395	387	403
JBS USA 4/19 TLB	99.75	0.01	12/31/2022	697	695	695
JDA SOFTWARE 10/16 TLB	99.41	0.01	10/12/2023	935	924	930
JEFFERIES FINANCE 5/19 TL	99.70	0.31	5/22/2026	1,100	1,097	1,097

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JEFFERIES FINANCE LLC / J 144A	98.22	7.25	8/15/2024	265	265	260
JONAH ENERGY LLC / JONAH 144A	47.75	7.25	10/15/2025	1,246	1,251	595
JP MORGAN CHASE C IWST A2 144A	100.79	5.63	12/5/2027	800	809	806
JP MORGAN CHASE COMMERC CB11 C	100.23	5.74	8/12/2037	960	962	962
JP MORGAN MORTGAGE ACQ WMC4 A5	65.23	2.70	12/25/2036	2,555	1,578	1,667
JUBILEE CLO 2014-X 11X DR REGS	113.31	3.30	4/15/2030	935	1,024	1,059
JUBILEE CLO 2014-X 11X ER REGS	109.39	5.40	4/15/2030	1,675	1,934	1,832
JUBILEE CLO 2014-X 14X CR REGS	113.79	1.69	1/15/2028	1,665	1,878	1,895
JUBILEE CLO 2014-XI 14X E REGS	112.46	4.69	1/15/2028	7,192	8,516	8,088
JUBILEE CLO 2015-X 16X ER REGS	113.03	4.60	12/15/2029	8,170	9,681	9,235
JUBILEE CLO 2015-XV 15X E REGS	112.23	4.64	7/12/2028	2,040	2,414	2,289
JUBILEE CLO 2016-X 17X DR REGS	114.11	3.45	4/15/2031	1,230	1,425	1,404
JUICE PLUS+ 11/18 TL	85.50	1.37	11/15/2025	491	472	420
JUNIPER NETWORKS INC	103.50	4.60	3/15/2021	1,400	1,440	1,449
JUPITER RES INC 144A	2.63	8.50	10/1/2022	278	1,345	731
KAR AUCTION 5/17 B5 TL	99.72	-	3/9/2023	198	198	198
KEHE DISTRIBUTORS LLC / K 144A	99.25	7.63	8/15/2021	1,250	1,263	1,241
KENAN ADVANTAGE GROUP INC 144A	90.00	7.88	7/31/2023	1,000	973	900
KENNEDY-WILSON INC	102.00	5.88	4/1/2024	475	469	485
KGA ESCROW LLC 144A	103.75	7.50	8/15/2023	537	537	557
KINETIC CONCEPTS (ACELITY)	99.98	0.02	1/26/2024	565	565	564
KINROSS GOLD CORP	101.00	4.50	7/15/2027	1,488	1,488	1,503
KISSNER HOLDINGS LP / KIS 144A	104.00	8.38	12/1/2022	3,500	3,500	3,640
KNOWLEDGE UNIVERSE/KINDER CARE	99.50	0.02	2/21/2025	1,066	1,055	1,061
KRONOS 11/16 2ND LIEN COV-LITE	103.19	0.72	11/1/2024	367	376	379
KRONOS 4/17 TLB	99.74	0.93	11/1/2023	948	939	946
KVK CLO 2013-1 LTD 1A AR 144A	99.55	3.50	1/14/2028	2,600	2,600	2,588
KVK CLO 2013-1 LTD 1A SUB 144A	38.96	-	1/14/2028	4,500	1,646	1,753
KVK CLO 2018-1 LTD 1A B 144A	99.48	4.29	5/20/2029	2,000	2,000	1,990
LABORATORY CORP OF AMERICA HOL	100.06	2.63	2/1/2020	325	324	325
LAIRD 5/18 TL	97.08	-	7/9/2025	940	914	912
LANDESK SOFTWARE 1/17 COV-LITE	99.63	0.43	1/20/2024	734	733	732
LAREDO PETROLEUM INC	92.75	5.63	1/15/2022	780	725	723
LBC TANK TERMINALS HOLDIN 144A	99.00	6.88	5/15/2023	2,100	2,116	2,079
LEGACY MORTGAGE AS GS3 A1 144A	101.73	4.00	6/25/2058	1,706	1,703	1,736
LEHMAN XS TRUST SERIE 10N 1A3A	98.23	2.61	7/25/2046	660	524	649
LEHMAN XS TRUST SERIE 12N A32A	96.21	2.60	8/25/2046	2,832	2,712	2,725
LEHMAN XS TRUST SERIES 16N A31	97.68	2.69	11/25/2046	1,838	1,727	1,795
LEHMAN XS TRUST SERIES 18N A3	93.92	2.66	12/25/2036	1,317	1,212	1,237
LEHMAN XS TRUST SERIES 9N 1A1	96.29	2.67	2/25/2036	1,506	1,432	1,450
LENNAR CORP	107.50	8.38	1/15/2021	500	540	538
LEVEL 3 2/17 TLB	99.15	0.01	2/22/2024	940	925	932
LIONS GATE 3/18 COV-LITE TLB	99.21	-	3/24/2025	590	588	586
LITHIA MOTORS INC 144A	103.00	5.25	8/1/2025	490	494	505
LLOYDS BANK CORPORATE MARKETS	100.11	3.10	8/5/2020	770	770	771
LPL HOLDINGS INC 144A	102.38	5.75	9/15/2025	1,025	1,025	1,049
LSTAR SECURITIES INV 1 A1 144A	100.30	4.19	3/1/2024	2,462	2,462	2,469
LSTAR SECURITIES INV 2 A1 144A	100.08	3.94	4/1/2023	1,172	1,172	1,173
LUCID ENERGY GROUP 2/18 TL	95.19	0.02	2/17/2025	1,279	1,256	1,218
LUMILEDS 1/18 COV-LITE TLB	70.38	0.02	6/30/2024	1,105	885	778
LUMINENT MORTGAGE TRUST 2 A1A	87.01	2.68	2/25/2046	489	437	425
LYTX 3/18 TL	98.28	0.03	3/15/2023	157	152	154
LYTX 8/17 RC	-	-	8/31/2022	39	35	-
LYTX 8/17 TL	98.28	0.03	8/31/2023	698	681	686
M/I HOMES INC	101.50	5.63	8/1/2025	799	799	811

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M/I HOMES INC	101.63	6.75	1/15/2021	775	787	788
MADISON PARK EURO 14A B1N 144A	113.88	0.01	7/15/2032	250	279	285
MADISON PARK EURO 14A DN 144A	113.88	0.01	7/15/2032	705	787	803
MADISON PARK EURO 14A EN 144A	110.46	0.01	7/15/2032	250	269	276
MADISON PARK FUNDI 11A DR 144A	99.38	5.84	7/23/2029	1,265	1,257	1,257
MADISON PARK FUNDI 17A CR 144A	100.02	4.99	7/21/2030	280	283	280
MADISON PARK FUNDI 26A DR 144A	97.34	5.34	10/29/2030	305	307	297
MADISON PARK FUNDIN 27A C 144A	95.68	5.19	4/20/2030	290	289	277
MADISON PARK FUNDIN 37A D 144A	100.00	0.01	7/15/2032	515	515	515
MALLINCKRODT INTERNATIONA 144A	67.00	5.50	4/15/2025	448	383	300
MALLINCKRODT INTERNATIONA 144A	75.50	5.63	10/15/2023	227	200	171
MALLINCKRODT INTERNATIONA 144A	86.00	5.75	8/1/2022	212	195	182
MAN GLG US CLO 2018 2A CR 144A	100.00	6.08	10/15/2028	4,145	4,130	4,145
MANITOWOC 10/18 TLB	98.00	0.01	12/31/2021	570	569	559
MARATHON CLO V LTD 5A A2R 144A	98.76	4.09	11/21/2027	689	689	680
MARATHON PETROLEUM CORP	101.04	3.40	12/15/2020	2,600	2,621	2,627
MARLAY PARK CLO DAC 1X B REGS	110.07	0.01	10/15/2030	370	405	407
MARRIOTT INTERNATIONAL INC/MD	100.38	3.12	12/1/2020	3,400	3,416	3,413
MATTAMY GROUP CORP 144A	104.13	6.88	12/15/2023	935	893	974
MATTAMY GROUP CORP 144A	105.38	6.50	10/1/2025	452	452	476
MAUSER PACKAGING SOLUTION 144A	96.50	7.25	4/15/2025	678	647	654
MAXLINEAR 4/17 COV-LITE TLB	98.75	0.18	5/13/2024	505	502	499
MCAFEE 10/18 (USD) COV-LITE	99.80	0.02	9/30/2024	1,420	1,415	1,417
MCGRAW-HILL 5/16 COV-LITE TLB	95.19	0.02	5/4/2022	1,960	1,950	1,866
MCGRAW-HILL GLOBAL EDUCAT 144A	91.50	7.88	5/15/2024	289	264	264
MDC PARTNERS INC 144A	91.90	6.50	5/1/2024	157	141	144
MEDALLION MIDLAND 10/17 TLB	97.25	-	10/30/2024	771	767	750
MEDPRO SAFETY PRODUCTS INC	-	-	(blank)	1	-	-
MEREDITH 10/18 TLB	99.86	0.01	1/31/2025	555	554	555
MICHAELS STORES 5/18 TLB	96.69	0.08	1/30/2023	845	819	817
MICRO FOCUS 4/17 (USD)	97.88	0.01	6/21/2024	98	97	96
MICRO FOCUS 4/17 COV-LITE TLB2	98.79	-	11/19/2021	715	707	706
MICRO FOCUS 6/17 (SEATTLE	97.88	0.01	6/21/2024	660	658	646
MICROCHIP TECHNOLOGY 5/18 TLB	99.34	-	5/29/2025	458	453	455
MICROCONNECTIONS 7/15 (USD)	100.19	-	10/14/2022	0	-	-
MISYS 4/17 2ND LIEN (USD)	99.02	0.03	6/13/2025	395	379	391
MISYS 6/17 (USD) COV-LITE TLB	97.31	-	6/13/2024	2,065	2,066	2,010
MOHEGAN TRIBAL 9/16 TLB	92.98	-	9/30/2023	1,273	1,260	1,184
MOLEX ELECTRONIC TECHNOLO 144A	100.05	2.88	4/15/2020	550	548	550
MONARCH GROVE CLO 1 1A A1 144A	99.23	3.46	1/25/2028	2,800	2,800	2,778
MONDELEZ INTERNATIONAL INC	100.41	3.00	5/7/2020	850	850	853
MONEYGRAM PAYMENT 3/13 TL	-	0.08	3/27/2020	-	-	-
MONEYGRAM PAYMENT 5/19 TLB	96.92	-	5/22/2023	1,007	950	976
MOOG INC 144A	101.75	5.25	12/1/2022	737	750	750
MORGAN STANLEY	103.22	5.50	7/24/2020	850	878	877
MORGAN STANLEY ABS CAP HE1 A2D	-	2.72	11/25/2036	-	-	-
MORGAN STANLEY ABS CAP HE8 A2D	61.81	2.71	10/25/2036	2,339	1,467	1,446
MORGAN STANLEY ABS CAPI HE6 A4	89.88	2.74	5/25/2037	998	914	897
MOUNTAIN HAWK II CL 2A CR 144A	100.07	4.94	7/20/2024	1,000	1,000	1,001
MP CLO VIII LTD 2A CR 144A	97.67	4.66	10/28/2027	2,000	2,000	1,953
MPT OPERATING PARTNERSHIP LP /	103.00	5.00	10/15/2027	631	631	650
MULTIPLAN 6/16 COV-LITE TL	95.46	-	6/7/2023	966	945	922
MYOB 3/19 (USD) COV-LITE TLB	99.94	0.02	3/8/2026	658	656	657
NATGASOLINE 10/18 TLB	99.75	0.02	10/31/2025	620	619	619
NAVIENT CORP	101.13	5.88	10/25/2024	550	542	556

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NBTY 8/17 COV-LITE TL	94.20	0.02	9/15/2024	986	949	929
NEP 10/18 (USD) TL	99.69	-	10/5/2025	946	944	943
NEPTUNE ENERGY BONDCO PLC 144A	101.50	6.63	5/15/2025	568	571	577
NETFLIX INC	102.28	4.38	11/15/2026	500	488	511
NETFLIX INC	110.71	5.88	11/15/2028	831	831	920
NETFLIX INC 144A	106.22	5.38	11/15/2029	320	320	340
NEW GOLD INC 144A	93.25	6.25	11/15/2022	900	920	839
NEWDAY FUNDING 1A B 144A	127.29	0.01	6/15/2027	180	228	229
NEWDAY FUNDING 1A C 144A	127.29	0.01	6/15/2027	576	730	733
NEWELL BRANDS INC	99.38	4.20	4/1/2026	349	329	347
NEWSTAR COMMERCIAL 1A CN 144A	100.02	6.13	3/20/2027	1,000	1,000	1,000
NEXSTAR BROADCASTING 6/19	99.63	-	6/19/2026	668	667	666
NEXSTAR ESCROW INC 144A	102.38	5.63	7/15/2027	200	200	205
NEXTERA ENERGY CAPITAL HOLDING	99.90	2.78	9/28/2020	1,780	1,780	1,778
NEXTERA ENERGY OPERATING 144A	100.63	4.25	7/15/2024	349	349	351
NFP 1/17 COV-LITE TLB	97.11	0.02	1/8/2024	565	562	549
NIAGARA PARK CLO LTD 1A B 144A	100.00	0.01	7/17/2032	250	250	250
NIELSEN FINANCE LLC / NIE 144A	99.75	5.00	4/15/2022	725	711	723
NIMBUS ACQUISITIONS 7/15 TLA	100.00	-	7/15/2021	201	202	201
NOMURA HOLDINGS INC	102.81	6.70	3/4/2020	2,550	2,638	2,622
NORTH WESTERLY CLO I X CR REGS	113.88	2.01	1/15/2026	1,625	1,839	1,851
NORTH WESTERLY CLO I X DR REGS	114.11	2.86	1/15/2026	1,035	1,290	1,181
NORTHSTAR FINANCIAL 5/18	99.00	0.02	5/25/2025	78	78	78
NORTHWEST ACQUISITIONS UL 144A	69.00	7.13	11/1/2022	832	747	574
NOVA CHEMICALS CORP 144A	104.50	5.00	5/1/2025	285	276	298
NRG ENERGY INC 144A	106.75	5.25	6/15/2029	341	341	364
N-STAR REL CDO VIII 8A A2 144A	98.69	2.85	2/1/2041	1,984	1,880	1,958
NUMERICABLE / YPSO / ALTICE	94.66	0.19	7/15/2025	825	797	781
NUMERICABLE / YPSO / ALTICE	96.75	0.22	1/31/2026	1,272	1,264	1,231
NUMERICABLE / YPSO / ALTICE	97.75	0.23	8/14/2026	187	180	182
OAK HILL EUROPEAN CR 5X E REGS	114.33	0.01	2/21/2030	580	662	663
OAKTREE CLO 2019-1 L 1A D 144A	100.14	0.01	4/22/2030	900	910	901
OASIS PETROLEUM INC	100.00	6.88	1/15/2023	324	320	324
OCP CLO 2015-10 LT 10A CR 144A	98.11	5.19	10/26/2027	435	435	427
OCP CLO 2015-8 LTD 8A CR 144A	99.68	5.39	4/17/2027	3,420	3,424	3,409
OCP CLO 2017-14 LTD 14A B 144A	97.78	4.47	11/20/2030	440	440	430
OCP CLO 2018-15 LTD 15A C 144A	96.04	5.54	7/20/2031	975	975	936
OCTAGON INVESTMENT 1A AR 144A	100.01	3.70	4/15/2026	749	749	749
OCTAGON INVESTMENT P 1A D 144A	100.00	0.01	7/20/2032	460	460	460
OCTAGON INVESTMENT P 1A D 144A	100.06	6.29	7/20/2030	250	251	250
OCTAGON LOAN FUNDI 1A SUB 144A	59.14	-	11/18/2031	2,472	2,051	1,462
OCWEN MASTER ADVAN T2 AT2 144A	99.96	2.72	8/16/2049	5,200	5,196	5,198
ONYX 12/16 RC	-	-	12/20/2021	87	87	-
ONYX 12/16 TL	100.00	-	12/20/2021	1,767	1,759	1,767
ONYX CENTERSOURCE INC	100.00	-	3/31/2021	691	691	691
OPTION CARE/BIOSCRIP 5/19	99.63	-	12/31/2022	959	952	956
ORTHO-CLINICAL 5/18 TLB	96.04	0.39	6/30/2025	1,453	1,424	1,396
ORTHO-CLINICAL DIAGNOSTIC 144A	95.50	6.63	5/15/2022	2,533	2,429	2,419
ORWELL PARK CLO DAC 1X CR REGS	113.89	2.70	7/18/2029	1,060	1,250	1,207
ORWELL PARK CLO DAC 1X D REGS	113.60	4.45	7/18/2029	4,951	5,790	5,624
ORWELL PARK CLO DAC 1X E REGS	106.36	5.20	7/18/2029	3,100	2,978	3,297
OSUM PRODUCTION 7/14 TL	92.00	-	7/31/2020	1,875	1,646	1,725
OZLM XIX LTD 19A B 144A	97.91	0.01	11/22/2030	1,630	1,570	1,596
OZLM XX LTD 20A C 144A	96.05	5.54	4/20/2031	255	245	245
OZLME VI DAC 6X D REGS	114.16	0.01	7/15/2032	710	797	811

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PALMER SQUARE LOAN 4A A1 144A	100.02	3.58	11/15/2026	1,836	1,836	1,837
PALMER SQUARE LOAN F 1A C 144A	100.08	5.85	4/20/2027	3,415	3,415	3,418
PAR PHARMACEUTICAL INC 144A	98.25	7.50	4/1/2027	653	653	642
PARADIGM QUTCOMES 10/18	98.42	0.50	10/23/2025	570	568	561
PARALLEL 2015-1 LTD 1A DR 144A	98.30	5.14	7/20/2027	260	260	256
PAREXEL INTERNATIONAL 8/17 TLB	95.66	0.01	9/27/2024	925	898	884
PARK AVENUE INSTITUT 1A B 144A	98.65	4.68	11/14/2029	2,605	2,612	2,570
PARKLAND FUEL CORP 144A	101.60	5.88	7/15/2027	228	228	232
PAYSAFE 12/17 (USD) TL	98.60	-	1/3/2025	1,430	1,424	1,410
PCI GAMING 5/19 COV-LITE TL	100.10	0.02	5/29/2026	665	666	666
PEABODY ENERGY CORP 144A	102.38	6.00	3/31/2022	1,134	1,138	1,161
PENSKE AUTOMOTIVE GROUP INC	104.25	5.50	5/15/2026	534	528	557
PENSKE TRUCK LEASING CO L 144A	100.12	3.05	1/9/2020	2,000	2,000	2,002
PENTA CLO 2 BV 2X E REGS	112.05	4.55	8/4/2028	6,720	7,973	7,530
PENTA CLO 2 BV 2X F REGS	105.51	5.48	8/4/2028	1,435	1,667	1,514
PENTA CLO 6 DAC 6A D 144A	113.99	0.01	7/25/2032	3,585	4,083	4,087
PERMIAN PRODUCTION	77.50	-	9/5/2024	713	684	552
PET HOLDINGS 6/16 DELAYED TL	97.50	2.02	7/5/2022	118	118	115
PET HOLDINGS 6/16 TL	97.50	2.02	6/27/2023	1,047	1,031	1,021
PETCO 1/17 COV-LITE TLB1	77.31	0.99	1/26/2023	1,282	1,258	991
PF CHANG'S 1/19 TLB	96.04	-	2/7/2026	755	748	725
PGT ESCROW ISSUER INC 144A	105.63	6.75	8/1/2026	487	487	514
PHARMACEUTICAL PRODUCT 3/18	99.36	0.01	8/18/2022	941	932	935
PIKES PEAK CLO 1 1A C 144A	96.23	4.68	7/24/2031	1,100	1,100	1,059
PIKES PEAK CLO 1 1A D 144A	96.29	5.73	7/24/2031	3,475	3,416	3,346
PILGRIM'S PRIDE CORP 144A	103.63	5.88	9/30/2027	475	473	492
PIONEER NATURAL RESOURCES CO	102.55	7.50	1/15/2020	230	238	236
PLANVIEW 1/17 TL	100.00	-	1/27/2023	1,498	1,484	1,498
PLANVIEW 12/17 TL	100.00	-	1/27/2023	108	108	108
PLAY POWER 5/19 COV-LITE TLB	100.13	0.02	5/7/2026	350	347	350
PODS 5/18 TLB	98.42	0.24	11/21/2024	569	561	560
POST HOLDINGS INC 144A	101.38	5.00	8/15/2026	430	417	436
POST HOLDINGS INC 144A	102.75	5.63	1/15/2028	784	784	806
POWER SOLUTIONS 4/19 (USD)	99.19	0.02	4/30/2026	900	891	893
PQ CORP 2/18 (USD) COV-LITE	99.49	0.86	2/8/2025	942	920	937
PREFERRED TERM SECURITIES 144A	74.00	2.76	6/22/2037	7,069	4,782	5,231
PREFERRED TERM SECURITIES 144A	75.50	2.99	3/22/2037	4,839	3,205	3,654
PREFERRED TERM SECURITIES 144A	78.00	2.81	3/22/2038	1,533	1,090	1,196
PREFERRED TERM SECURITIES 144A	79.00	2.78	9/22/2037	864	665	682
PREFERRED TERM SECURITIES 144A	80.00	2.81	12/22/2037	1,841	1,402	1,473
PREFERRED TERM SECURITIES 144A	82.00	2.86	3/22/2038	1,977	1,375	1,622
PREFERRED TERM SECURITIES 144A	87.50	3.01	3/22/2038	140	116	123
PREFERRED TERM SECURITIES 144A	87.50	3.09	9/23/2035	281	214	246
PREFERRED TERM SECURITIES 144A	88.25	2.70	6/22/2037	1,760	1,542	1,553
PREFERRED TERM SECURITIES 144A	90.75	2.71	9/22/2037	19,956	16,197	18,110
PREFERRED TERM SECURITIES 144A	93.75	2.61	12/22/2036	685	619	642
PREFERRED TERM SECURITIES 144A	93.75	2.91	3/23/2035	1,130	937	1,059
PREFERRED TERM SECURITIES 144A	94.25	2.75	9/22/2036	2,108	1,881	1,987
PRIME SECURITY SERVICES B 144A	105.02	9.25	5/15/2023	1,861	1,984	1,954
PROJECT 29 HOLDING CO	100.00	-	5/3/2024	1,000	1,000	1,000
PROSIGHT GLOBAL INC GTD SR NT	103.80	7.50	11/26/2020	850	890	882
PROTECTION ONE 12/16 COV-LITE	99.26	0.01	5/2/2022	1,427	1,430	1,416
PROVIDUS CLO III DAC 3A D 144A	113.88	0.01	7/20/2032	1,710	1,944	1,947
PUTNAM STRUCTURED P 1A A2 144A	99.03	3.47	10/15/2038	1,072	918	1,061
QUICKEN LOANS INC 144A	103.13	5.75	5/1/2025	490	492	505

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QUIKRETE 11/16 COV-LITE TLB	98.14	-	11/15/2023	942	943	924
RACKSPACE HOSTING 11/17	92.15	0.97	11/3/2023	1,527	1,425	1,407
RALI SERIES 2006-QO2 TR QO2 A2	38.30	2.75	2/25/2046	1,002	470	384
RALI SERIES 2006-QO2 TR QO2 A3	39.59	2.82	2/25/2046	1,565	737	620
RALI SERIES 2006-QO6 TR QO6 A1	39.57	2.66	6/25/2046	3,007	1,351	1,190
RALI SERIES 2006-QO8 QO8 1A3A	96.02	2.68	10/25/2046	1,179	1,029	1,132
RALI SERIES 2007-QO2 TR QO2 A1	57.27	2.63	2/25/2047	1,529	909	875
RASPRO TRUST 2005 1A B 144A	96.66	3.52	3/23/2024	5,284	5,030	5,107
RASPRO TRUST 2005 1A G 144A	99.95	2.79	3/23/2024	7	7	7
RCP VEGA/BLACKBOARD TRANSACT	99.50	1.18	4/17/2026	525	517	522
REALOGY GROUP LLC / REALO 144A	87.63	9.38	4/1/2027	164	164	144
RECETTE CLO LTD 1A DR 144A	99.00	5.34	10/20/2027	300	302	297
REFINITIV/THOMSON REUTERS	96.91	-	10/1/2025	1,435	1,429	1,391
REGATTA XI FUNDING 1A C1 144A	96.25	4.44	7/17/2031	650	650	626
REGIONALCARE HOSPITAL PAR 144A	106.44	8.25	5/1/2023	936	945	996
REPUBLIC SERVICES INC	100.56	5.50	9/15/2019	200	201	201
REYNOLDS GROUP 1/17 (USD) TL	99.17	0.01	2/5/2023	503	481	498
REYNOLDS GROUP 1/17 (USD) TL	99.17	0.01	2/5/2023	934	931	926
ROCKWALL CDO II LT 1A B1L 144A	99.04	4.83	8/1/2024	695	653	688
ROLLS-ROYCE PLC 144A	99.85	2.38	10/14/2020	2,500	2,496	2,496
RR 4 LTD 4A B 144A	97.01	4.25	4/15/2030	1,155	1,104	1,120
RR 4 LTD 4A C 144A	96.84	5.55	4/15/2030	2,455	2,455	2,377
RYDER SYSTEM INC	99.97	2.50	5/11/2020	480	477	480
S & P 500 INDEX (SPX)	97.50	-	7/19/2019	(0)	(61)	(6)
S & P 500 INDEX (SPX)	570.00	-	7/19/2019	0	303	36
S&P GLOBAL INC	101.05	3.30	8/14/2020	350	351	354
SABINE PASS LIQUEFACTION LLC	103.87	5.63	2/1/2021	2,125	2,204	2,207
SANDRIDGE ENERGY INC	6.92	-	(blank)	44	489	303
SANTANDER UK PLC	99.88	2.88	11/3/2020	2,600	2,599	2,597
SBP HOLDINGS 3/14 TL	98.75	0.02	3/27/2021	960	834	948
SCIENTIFIC GAMES 1/18 B5	98.40	0.44	8/14/2024	1,238	1,224	1,218
SEADRILL PARTNERS 2/14 TL	71.25	-	2/21/2021	1,151	992	820
SEAWORLD 3/17 B5 TLB	99.57	0.02	4/1/2024	1,403	1,357	1,397
SEDGWICK CMS 12/18 COV-LITE TL	98.48	0.02	11/6/2025	1,408	1,409	1,387
SERVICE CORP INTERNATIONAL/US	105.25	5.13	6/1/2029	330	330	347
SHACKLETON 2013-III 3A DR 144A	95.01	5.62	7/15/2030	1,865	1,866	1,772
SHAPE TECHNOLOGIES 4/18	95.75	0.81	4/19/2025	474	472	454
SIMMONS FOODS INC 144A	107.75	7.75	1/15/2024	1,411	1,450	1,520
SIRIUS XM RADIO INC 144A	101.74	5.00	8/1/2027	707	707	719
SIRIUS XM RADIO INC 144A	102.33	4.63	7/15/2024	615	615	629
SIRIUS XM RADIO INC 144A	102.52	5.50	7/1/2029	937	937	961
SIVANTOS/WIDEX 7/18 (USD) TLB	-	0.02	7/24/2025	-	-	-
SLM STUDENT LOAN TRUST 20 5 B2	92.17	0.01	1/26/2043	4,550	4,173	4,194
SM ENERGY CO	93.75	6.75	9/15/2026	659	635	618
SMITHFIELD FOODS INC 144A	109.02	5.20	4/1/2029	236	235	257
SONIC AUTOMOTIVE INC	100.88	5.00	5/15/2023	80	73	81
SORRENTO PARK CLO D 1X CR REGS	113.69	2.69	11/16/2027	901	1,009	1,024
SORRENTO PARK CLO DA 1X E REGS	109.07	5.94	11/16/2027	250	233	273
SOUND PHYSICIANS 6/18 2ND LIEN	99.58	0.03	6/19/2026	356	355	354
SOUND PHYSICIANS 6/18 TL	99.75	-	6/27/2025	814	811	811
SOUND POINT CLO XII 2A DR 144A	100.22	6.44	10/20/2028	5,195	5,216	5,206
SOUND POINT CLO XVII 3A C 144A	96.73	5.59	10/20/2030	335	325	324
SOUND POINT CLO XX L 2A D 144A	96.34	5.76	7/26/2031	1,620	1,620	1,561
SOUND POINT CLO XXII 1A D 144A	99.77	6.47	1/20/2032	1,655	1,653	1,651
SOUND POINT CLO XXII 2A B 144A	100.10	0.01	4/15/2032	810	812	811

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SOUTHWESTERN ENERGY CO	94.74	7.50	4/1/2026	480	491	455
SPIRIT AEROSYSTEMS INC	104.92	4.60	6/15/2028	3	9	4
SPRINGS WINDOW FASHIONS 5/18	95.00	0.18	12/31/2021	300	285	285
SPRINGS WINDOW FASHIONS 5/18	99.00	0.11	12/31/2021	366	362	362
SPRINT COMMUNICATIONS 11/18 TL	98.97	0.02	2/2/2024	264	258	261
SPRINT COMMUNICATIONS 2/17 TL	98.38	0.01	2/2/2024	2,578	2,578	2,536
SPRINT CORP	106.60	7.63	3/1/2026	898	933	957
SPRINT CORP	108.63	7.88	9/15/2023	1,760	1,795	1,912
SS&C TECHNOLOGIES 10/18 ADD-ON	99.60	0.01	4/16/2025	403	402	402
SS&C TECHNOLOGIES 4/18 COV-LT	99.55	0.01	4/16/2025	542	541	540
SS&C TECHNOLOGIES INC 144A	103.75	5.50	9/30/2027	859	859	891
STANDARD CHARTERED BANK/NEW YO	100.16	3.14	8/4/2020	760	760	761
STATION CASINOS 5/16 TLB	99.48	-	6/8/2023	794	790	789
STATION PLACE SECURITIZATI 6 A	100.00	3.19	9/24/2019	4,000	4,000	4,000
STERIGENICS-NORDION 3/17 TL	98.50	0.02	5/15/2022	1,426	1,398	1,404
STRIPES 2013 AIRCRAFT 12/13	-	1.68	12/31/2021	-	-	-
STRIPES 2013-1 A1 A1 TERM LOAN	98.00	-	3/20/2023	2,655	2,637	2,602
STRUCTURED ASSET SECURI BC3 A3	88.70	2.56	10/25/2036	906	809	803
SUDBURY MILL CLO LTD 1A D 144A	100.12	6.09	1/17/2026	398	387	398
SUNCOKE ENERGY PARTNERS L 144A	97.63	7.50	6/15/2025	1,842	1,843	1,798
SUNSOURCE 11/17 COV-LITE TL	99.34	-	12/11/2024	1,410	1,400	1,400
SVB FINANCIAL GROUP	103.36	5.38	9/15/2020	1,100	1,138	1,137
SYMPHONY CLO XII L 12A DR 144A	100.00	5.85	10/15/2025	1,185	1,185	1,185
SYMPHONY CLO XIV L 14A D1 144A	100.01	6.00	7/14/2026	250	251	250
SYMPHONY CLO XIX LT 19A D 144A	95.21	5.15	4/16/2031	320	318	305
SYMPHONY CLO XVII 17A ER 144A	98.24	8.15	4/15/2028	3,485	3,437	3,424
SYNCHRONY BANK	100.09	3.23	3/30/2020	1,250	1,253	1,251
SYSCO CORP	100.34	2.60	10/1/2020	45	45	45
TALEN ENERGY 3/17 TLB1	99.91	0.02	7/6/2023	763	764	762
TALEN ENERGY 6/19 TLB	99.38	-	6/26/2026	794	789	789
TCP WATERMAN CLO LT 1A A2 144A	100.00	5.79	12/15/2028	2,000	2,000	2,000
TEAM HEALTH 1/17 COV-LITE TL	88.38	0.01	2/6/2024	1,025	1,057	906
TECTUM HOLDINGS/TRUCK HERO	93.81	0.02	4/22/2024	151	151	141
TELECOM ITALIA SPA/MILANO 144A	103.50	5.30	5/30/2024	544	574	563
TELEFONICA EMISIONES SA	102.04	5.13	4/27/2020	2,600	2,661	2,653
TELENET 5/18 (USD) AN TL	98.86	0.17	8/17/2026	574	573	567
TELESAT CANADA 2/17 TLB	98.79	0.01	11/17/2023	969	959	957
TELOS CLO 2014-6 L 6A A1R 144A	100.02	3.86	1/17/2027	1,729	1,731	1,729
TEMPO ACQUISITION 5/17	99.52	0.02	5/1/2024	931	927	927
TENET HEALTHCARE CORP	100.50	5.13	5/1/2025	90	89	90
TENET HEALTHCARE CORP 144A	103.50	6.25	2/1/2027	350	350	362
TEREX CORP 144A	101.50	5.63	2/1/2025	500	491	508
TERRA-GEN 12/14 TL	90.50	-	12/9/2021	1,355	1,229	1,226
TEXGEN POWER LLC	39.31	-	(blank)	35	1,388	1,378
THL CREDIT WIND RI 1A AR2 144A	100.00	0.01	1/15/2026	3,600	3,600	3,600
THL CREDIT WIND RIV 2A DR 144A	98.22	5.20	10/15/2027	830	830	815
THOMSON LEARNING 5/16 TLB	95.69	-	6/7/2023	123	121	117
THOMSON REUTERS 11/17 (IP&S)	100.18	0.02	10/3/2023	554	554	555
TIBCO SOFTWARE INC 144A	106.25	11.38	12/1/2021	3,178	3,463	3,377
TICP CLO IX LTD 9A D 144A	96.47	5.49	1/20/2031	1,950	1,950	1,881
TIKEHAU CLO BV 1X DR REGS	112.65	2.35	8/4/2028	735	857	828
TIKEHAU CLO BV 1X ER REGS	112.88	4.60	8/4/2028	6,965	8,123	7,862
T-MOBILE USA INC	102.89	4.75	2/1/2028	120	117	123
T-MOBILE USA INC	104.25	6.00	4/15/2024	230	244	240
T-MOBILE USA INC	107.00	5.38	4/15/2027	767	767	821

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TOWER AUTOMOTIVE 3/17 TLB	97.00	0.33	3/7/2024	575	564	557
TRANCHE CDX BP UL IG.31 7-15%	(2.04)	-	12/20/2023	310	0	(6)
TRANCHE CDX BP UL IG.31 7-15%	-	1.00	12/20/2023	(310)	(2)	-
TRANSDIGM 5/18 COV-LITE TLF	98.09	0.01	6/9/2023	1,940	1,916	1,903
TRANSOCEAN INC	75.00	6.80	3/15/2038	697	584	523
TRANSOCEAN INC	90.50	9.35	12/15/2041	262	244	237
TRAPEZA CDO IX LTD 9A A1 144A	93.25	2.91	1/27/2040	2,633	2,269	2,455
TRAVELPORT 3/19 2ND LIEN	95.50	0.74	5/28/2027	414	401	395
TRAVELPORT 3/19 COV-LITE TL	93.86	0.24	5/29/2026	1,075	1,052	1,009
TREMAN PARK CLO LT 1A ERR 144A	96.63	8.09	10/20/2028	365	349	353
TRIBUNE 1/17 TLB	99.77	0.02	1/26/2024	930	930	928
TRIMARAN CAVU 2019- 1A C1 144A	100.02	0.01	7/20/2032	1,510	1,510	1,510
TRIMARAN CAVU 2019-1 1A B 144A	99.99	0.01	7/20/2032	680	680	680
TRIMARAN CAVU 2019-1 1A D 144A	100.16	0.01	7/20/2032	2,400	2,400	2,404
TRIUMPH GROUP INC	96.75	7.75	8/15/2025	1,395	1,415	1,350
TRIUMPH GROUP INC	98.00	5.25	6/1/2022	192	192	188
TRIUMPH GROUP INC	98.50	4.88	4/1/2021	505	487	497
TRNCH BP UL CDX.NA.IG.31 7-15%	(2.04)	-	12/20/2023	770	0	(16)
TRNCH BP UL CDX.NA.IG.31 7-15%	-	1.00	12/20/2023	(770)	(0)	-
TRONAIR 9/16 TL	90.00	0.99	9/8/2023	495	483	445
TRYON PARK CLO LTD 1A CR 144A	97.45	5.30	4/15/2029	2,850	2,776	2,777
TSG ENTMT FIN LLC	105.31	6.25	9/25/2031	4,800	4,800	5,055
TULLOW OIL PLC 144A	100.75	6.25	4/15/2022	2,385	2,126	2,403
TWIN RIVER 5/19 COV-LITE TLB	99.71	0.29	5/1/2026	766	764	764
TYMON PARK CLO DAC 1X DR REGS	112.64	4.60	1/21/2029	4,190	5,089	4,720
U S TREASURY NOTE	104.79	2.88	11/30/2023	2,707	2,800	2,837
U.S.I. 8/17 INCREMENTAL TLB	97.38	0.01	5/16/2024	949	945	924
UBS AG/LONDON REGS	100.39	3.17	6/8/2020	600	602	602
UBS GROUP FUNDING SWITZER 144A	100.67	2.95	9/24/2020	900	900	906
UBS GROUP FUNDING SWITZER 144A	101.50	3.78	9/24/2020	2,000	2,032	2,030
ULTIMATE SOFTWARE 3/19	100.13	0.02	4/8/2026	661	660	662
UNIFRAX 11/18 (USD) COV-LITE	97.21	0.27	12/31/2021	564	559	548
UNIQUE PUB FINANCE CO PLC REGS	142.58	5.66	6/30/2027	413	584	588
UNITYMEDIA 6/17 COV-LITE TLB	99.67	0.17	9/30/2025	1,427	1,408	1,422
UNIVAR 11/17 (USD) COV-LITE	99.66	0.01	7/1/2024	951	951	948
UNIVERSAL SERVICES 10/18	99.84	0.02	7/28/2022	448	446	447
UNIVERSAL SERVICES 7/15	99.77	0.02	7/28/2022	1,474	1,452	1,471
UNIVISION 3/17 C5 COV-LITE TL	95.09	0.01	3/15/2024	1,003	989	954
UPC FINANCING 10/17 (USD) AR	99.86	0.18	1/15/2026	650	649	649
US 5YR NOTE FUTURE (CBT)	118.16	-	9/30/2019	(0)	-	(36)
US INFRASTRUCTURE 6/17 TLB	99.17	-	12/8/2023	610	608	605
US SILICA 4/18 COV-LITE TLB	93.75	-	12/31/2021	1,578	1,570	1,479
US TREAS-CPI INFLAT	99.78	1.38	1/15/2020	7,138	7,150	7,122
USA COMPRESSION PARTNERS LP /	105.74	6.88	4/1/2026	500	512	529
USI INC/NY 144A	99.00	6.88	5/1/2025	804	794	796
VALEANT 5/18 TLB	99.94	0.29	6/2/2025	1,387	1,370	1,386
VARSITY BRANDS 11/17 COV-LITE	97.96	0.02	12/9/2024	941	936	922
VB-S1 ISSUER LLC 1A C 144A	100.16	3.07	6/15/2046	1,150	1,142	1,152
VECTOR GROUP LTD 144A	92.68	6.13	2/1/2025	100	89	93
VENTAS REALTY LP / VENTAS CAPI	100.13	2.70	4/1/2020	800	798	801
VENTURE 37 CLO LTD 37A D 144A	100.00	0.01	7/15/2032	1,805	1,805	1,805
VENTURE XIII CLO 13A SUB 144A	53.07	-	9/10/2029	4,500	3,025	2,388
VERIFONE 8/18 COV-LITE TL	96.75	0.74	8/8/2025	561	558	542
VERITAS 6/17 (USD) COV-LITE TL	90.81	0.02	1/27/2023	647	601	587
VERITAS US INC / VERITAS 144A	85.75	10.50	2/1/2024	1,230	1,264	1,055

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VERSCEND 8/18 TLB	99.94	0.02	8/8/2025	658	660	658
VERTAFORE 5/18 2ND LIEN TL	97.04	-	6/4/2026	695	687	674
VERTAFORE 5/18 TLB	95.96	-	6/4/2025	1,577	1,553	1,513
VFH PARENT LLC / ORCHESTR 144A	103.62	6.75	6/15/2022	2,173	2,263	2,252
VIASAT INC 144A	98.25	5.63	9/15/2025	296	284	291
VIASAT INC 144A	104.00	5.63	4/15/2027	177	177	184
VIRGIN MEDIA SECURED FINA 144A	101.47	5.50	5/15/2029	1,272	1,286	1,291
VISTRA (TXU/TCEH) 6/18	99.84	0.16	12/31/2025	1,087	1,085	1,085
VISTRA 10/15 (USD) COV-LITE TL	98.00	-	10/26/2022	567	563	556
VISTRA OPERATIONS CO LLC 144A	100.59	3.55	7/15/2024	449	448	452
VISTRA OPERATIONS CO LLC 144A	101.38	4.30	7/15/2029	542	541	549
VISTRA OPERATIONS CO LLC 144A	103.63	5.00	7/31/2027	525	525	544
VNU 4/17 COV-LITE TLB4	98.97	0.25	10/4/2023	1,446	1,426	1,431
VOYA CLO 2013-1 LTD 1A BR 144A	96.90	4.50	10/15/2030	1,180	1,142	1,143
VOYA CLO 2016-1 LTD 1A BR 144A	96.25	4.39	1/20/2031	955	917	919
WABTEC CORP	97.72	3.45	11/15/2026	1,176	1,051	1,149
WACHOVIA ASSET SEC HE2A A 144A	95.77	2.53	7/25/2037	1,746	1,663	1,672
WACHOVIA ASSET SECU HE1 A 144A	93.20	2.63	7/25/2037	1,100	957	1,025
WADDELL + REED FINL INC	100.38	5.75	1/13/2021	900	896	903
WALGREENS INFUSION/OPTION CARE	99.63	0.02	4/7/2022	687	685	685
WAMU ASSET-BACKED CERT HE2 2A2	52.15	2.59	4/25/2037	1,750	946	913
WARRIOR MET COAL INC 144A	104.25	8.00	11/1/2024	780	780	813
WASTEQUIP 2/18 TL	99.13	-	3/15/2025	563	562	558
WEBSTER PARK CLO LT 1A CR 144A	96.40	5.49	7/20/2030	510	510	492
WELLS FARGO COMMERCIAL NXS1 A2	99.87	2.63	5/15/2048	1,200	1,196	1,198
WEST CORP 10/17 COV-LITE TL	93.17	0.54	10/10/2024	1,436	1,432	1,337
WEST CORP 3/18 INCREMENTAL	91.75	0.50	10/10/2024	1,100	1,095	1,009
WESTINGHOUSE/BROOKFIELD WEC	99.75	-	8/1/2025	928	923	925
WHITING PETROLEUM CORP	96.44	6.63	1/15/2026	463	464	447
WILLIS ENGINE SECURIT A A 144A	103.33	5.50	9/15/2037	4,131	4,072	4,268
WYNDHAM DESTINATIONS INC	104.74	5.40	4/1/2024	490	493	513
WYNN LAS VEGAS LLC / WYNN 144A	100.38	5.25	5/15/2027	652	652	654
WYNN LAS VEGAS LLC / WYNN 144A	103.28	5.50	3/1/2025	550	558	568
XPO LOGISTICS INC 144A	106.63	6.75	8/15/2024	776	777	827
YAK MAT 6/18 2ND LIEN TLB	86.00	0.45	7/10/2026	200	186	172
YORK CLO 1 LTD 1A CRR 144A	98.29	4.69	10/22/2029	1,115	1,068	1,096
YORK RISK SERVICES 10/14	94.27	0.02	10/1/2021	1,009	1,000	951
YORK RISK SERVICES HOLDIN 144A	82.25	8.50	10/1/2022	86	70	71
ZIMMER BIOMET HOLDINGS INC	100.13	2.70	4/1/2020	2,650	2,645	2,653
ZOETIS INC	101.27	3.45	11/13/2020	2,600	2,625	2,633
High Yield Bonds / Bank Loans				1,202,178	\$ 1,152,597	\$ 1,198,242
High Yield Bonds / Bank Loans Receivable						5,835
Total High Yield Bonds / Bank Loans					\$	1,204,077
Total Fixed Income Investments					\$	3,274,749

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APPENDIX E: EQUITY^{1,2}

Issuer	Price	Shares	Cost	Market Value
Developed International Equity				
77 BANK LTD/THE	\$ 14.71	9	176	126
A2A SPA	1.74	1,474	2,649	2,562
AAK AB	18.97	12	143	220
AALBERTS NV	39.37	16	637	639
AAREAL BANK AG	26.39	4	149	102
ABACUS PROPERTY GROUP	2.88	56	141	161
ABCAM PLC	18.76	13	169	251
ACCENT GROUP LTD	0.97	535	521	520
ACCIONA SA	107.50	2	165	188
ACCORDIA GOLF TRUST	0.39	213	108	83
ACEA SPA	19.06	97	1,625	1,845
ACERINOX SA	10.06	10	127	100
ACKERMANS & VAN HAAREN NV	150.21	6	986	914
ACTIVIA PROPERTIES INC	4,353.07	0	143	139
ADASTRIA CO LTD	21.42	76	1,889	1,624
ADEKA CORP	14.78	12	184	182
ADELAIDE BRIGHTON LTD	2.84	31	131	88
ADLER REAL ESTATE AG	12.78	8	121	96
ADO PROPERTIES SA	41.43	3	130	118
ADVA OPTICAL NETWORKING SE	7.32	80	774	588
ADVANCE RESIDENCE INVESTMENT C	2,974.75	0	186	214
ADVANCED MEDICAL SOLUTIONS GRO	3.82	19	74	73
ADVANTEST CORP	27.52	48	1,097	1,329
AECON GROUP INC	14.67	63	848	932
AEDIFICA SA	95.55	1	72	73
AEON MALL CO LTD	15.05	285	4,855	4,283
AEON REIT INVESTMENT CORP	1,280.86	0	315	321
AF POYRY AB	22.66	3	61	74
AFI PROPERTIES LTD	32.24	4	103	137
AFTERPAY TOUCH GROUP LTD	17.59	18	248	311
AG BARR PLC	11.80	5	63	63
AGF MANAGEMENT LTD	3.98	19	91	75
AGGREKO PLC	10.05	21	248	210
AICA KOGYO CO LTD	33.41	4	122	137
AIMIA INC	2.92	32	87	94
AIN HOLDINGS INC	58.20	3	187	145
AIR CANADA	30.37	18	339	559
AIR NEW ZEALAND LTD	1.78	54	126	97
AIRPORT CITY LTD	18.36	9	121	162
AKATSUKI INC	53.74	11	584	575
AKER ASA	57.56	2	72	124
AKER BP ASA	28.69	56	1,804	1,605
AKTIA BANK OYJ	9.83	11	118	111
ALARIS ROYALTY CORP	14.39	8	121	115
ALBIOMA SA	26.53	4	98	112
ALGONQUIN POWER & UTIL CORP	12.14	32	350	384
ALLIANCE PHARMA PLC	0.87	107	130	93
ALLIED PROPERTIES REIT	36.25	44	1,572	1,611

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ALLREAL HOLDING AG	172.31	1	179	175
ALMIRALL SA	18.49	17	271	313
ALONY HETZ PROPERTIES & INVEST	12.97	14	141	180
ALS LTD	5.15	31	163	158
ALSO HOLDING AG	143.18	4	527	595
ALSTRIA OFFICE REIT-AG	16.22	179	2,813	2,897
ALTEN SA	120.03	6	625	760
ALTUM LTD	24.00	56	1,090	1,352
ALTRAN TECHNOLOGIES SA	15.89	15	227	236
ALTRI SGPS SA	6.95	266	2,323	1,848
ALTUS GROUP LTD	24.54	4	92	104
AMADEUS FIRE AG	136.43	1	177	181
AMANO CORP	27.59	8	169	212
AMBU A/S	16.23	12	169	192
AMOT INVESTMENTS LTD	6.65	20	103	131
AMPLIFON SPA	23.41	8	109	184
AMS AG	39.25	5	265	206
ANIMA HOLDING SPA	3.40	27	192	94
ANRITSU CORP	17.38	13	186	219
ANSELL LTD	18.84	116	2,033	2,186
APERAM SA	28.28	4	176	127
APHRIA INC	7.05	13	140	94
APPEN LTD	19.64	13	228	251
APPLUS SERVICES SA	13.61	61	794	834
ARC RESOURCES LTD	4.91	40	201	198
ARCLAND SAKAMOTO CO LTD	12.24	10	137	122
ARCS CO LTD	19.94	8	181	165
ARGENX SE	140.30	2	234	323
ARGOSY PROPERTY LTD	0.93	159	120	147
ARIAKE JAPAN CO LTD	63.11	1	108	76
ARITZIA INC	12.84	20	273	254
ARTIS REIT	8.90	215	1,699	1,914
ARTNATURE INC	5.85	39	250	228
AS ONE CORP	83.07	3	223	249
ASCENDAS HOSPITALITY TRUST	0.72	127	76	92
ASCENTIAL PLC	4.53	23	130	105
ASCOPIAVE SPA	4.30	22	97	97
ASCOTT RESIDENCE TRUST	0.96	107	87	103
ASHMORE GROUP PLC	6.48	133	760	860
ASM INTERNATIONAL NV	65.21	52	3,125	3,412
ASOS PLC	32.45	3	247	109
ASR NEDERLAND NV	40.72	68	2,439	2,778
ASSURA PLC	0.81	183	150	148
ASTM SPA	32.34	68	1,490	2,184
ASTRO JAPAN PROPERTY GROUP	-	82	403	-
AT&S AUSTRIA TECHNOLOGIE & SYS	18.13	7	141	121
ATEA ASA	13.61	7	107	93
ATLANTICA YIELD PLC	22.67	75	1,602	1,707
ATLAS ARTERIA LTD	5.50	39	180	217

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
ATS AUTOMATION TOOLING SYS INC	16.30	10	146	156
AURUBIS AG	48.77	3	244	156
AUSTAL LTD	2.39	295	510	706
AUSTEVOLL SEAFOOD ASA	10.50	111	1,069	1,168
AUTOGRILL SPA	10.49	8	99	84
AVAST PLC	3.82	476	1,829	1,816
AVENTUS GROUP	1.61	52	89	83
AVEVA GROUP PLC	51.44	5	123	251
AWA BANK LTD/THE	23.95	4	132	91
AXFOOD AB	19.80	7	125	147
AZBIL CORP	24.43	9	177	220
AZIMUT HOLDING SPA	19.28	7	129	132
B&M EUROPEAN VALUE RETAIL SA	4.24	53	234	224
B2GOLD CORP	3.05	47	135	142
BABCOCK INTERNATIONAL GROUP PL	5.83	43	263	251
BACHEM HOLDING AG	132.31	1	82	80
BADGER DAYLIGHTING LTD	36.56	4	161	164
BAKKAFROST P/F	55.83	3	167	165
BALFOUR BEATTY PLC	3.08	47	164	143
BANCA GENERALI SPA	28.83	48	1,276	1,386
BANCA MEDIOLANUM SPA	7.37	13	104	94
BANCA POPOLARE DI SONDRIO SCPA	2.22	38	146	84
BANCO BPM SPA	2.04	87	266	177
BANCO COMERCIAL PORTUGUES SA	0.31	2,091	629	647
BANDO CHEMICAL INDUSTRIES LTD	9.44	16	156	147
BANK OF OKINAWA LTD/THE	30.44	3	101	76
BANK OF THE RYUKYUS LTD	10.67	10	137	101
BANQUE CANTONALE VAUDOISE	779.49	0	99	104
BARCO NV	210.91	15	2,255	3,221
BAWAG GROUP AG	41.98	4	174	154
BAYCURRENT CONSULTING INC	38.52	3	93	104
BBA AVIATION PLC	3.59	59	234	212
BCA MARKETPLACE PLC	3.09	66	167	204
BE SEMICONDUCTOR INDUSTRIES NV	25.78	6	156	150
BEACH ENERGY LTD	1.39	1,111	1,414	1,548
BEAZLEY PLC	7.02	33	204	235
BECHTLE AG	115.02	2	136	245
BEFIMMO SA	57.62	2	145	142
BELIMO HOLDING AG	6,153.85	0	889	935
BELLUNA CO LTD	6.82	32	247	220
BELLWAY PLC	35.44	67	2,618	2,372
BENEFIT ONE INC	17.25	18	311	304
BEST WORLD INTERNATIONAL LTD	0.65	1,341	2,108	876
BEST WORLD INTERNATIONAL LTD	1.01	262	521	264
BETSSON AB	6.12	165	1,319	1,010
BIFFA PLC	2.62	130	392	340
BIG YELLOW GROUP PLC	12.59	18	186	228
BILLERUDKORSNAS AB	13.32	6	93	79
BIOTAGE AB	11.74	7	69	87

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
BIOTEST AG	25.00	2	50	47
BKW AG	66.87	2	120	130
BLUESCOPE STEEL LTD	8.46	114	1,232	967
BML INC	28.40	11	314	301
BOARDWALK REAL ESTATE INVT	30.49	4	122	122
BODYCOTE PLC	10.52	137	1,591	1,446
BOLSAS Y MERCADOS ESPANOLES SH	24.51	5	171	118
BONAVA AB	12.57	8	130	95
BONDUELLE SCA	32.80	3	106	94
BOOHOO GROUP PLC	2.69	2,192	6,049	5,906
BORREGAARD ASA	11.59	1	17	17
BORUSSIA DORTMUND GMBH & CO KG	9.42	19	136	176
BOSKALIS WESTMINSTER	23.13	5	147	116
BOSSARD HOLDING AG	155.69	1	125	92
BOVIS HOMES GROUP PLC	13.15	146	2,105	1,917
BOYD GROUP INCOME FUND	126.63	2	288	304
BPER BANCA	4.08	31	145	126
BRAVIDA HOLDING AB	8.87	235	1,985	2,084
BRAVURA SOLUTIONS LTD	3.41	16	58	55
BREWIN DOLPHIN HOLDINGS PLC	3.89	20	88	79
BRICKWORKS LTD	11.43	15	181	168
BRITVIC PLC	11.31	16	142	177
BRP INC	35.81	34	1,071	1,207
BRUNELLO CUCINELLI SPA	33.78	6	249	203
BTG PLC	10.63	18	162	193
BUCHER INDUSTRIES AG	345.03	1	175	187
BUNKA SHUTTER CO LTD	7.58	10	71	72
BURE EQUITY AB	17.07	32	473	544
BURFORD CAPITAL LTD	19.73	12	144	230
BUWOG AG RIGHTS	-	6	-	-
BUZZI UNICEM SPA	20.32	4	111	90
BWP TRUST	2.58	757	1,946	1,955
CA IMMOBILIEN ANLAGEN AG	36.78	5	129	196
CAESARSTONE LTD	15.03	5	180	79
CANACCORD GENUITY GROUP INC	4.59	27	118	122
CANADA GOOSE HOLDINGS INC	38.79	6	247	225
CANADIAN APARTMENT PPTYS REIT	37.01	48	1,665	1,776
CANADIAN WESTERN BANK	22.86	9	180	206
CANCOM SE	53.20	24	1,145	1,273
CANFOR CORPORATION NEW	8.13	11	153	86
CANFOR PULP PRODUCTS INC	8.22	9	83	72
CANON ELECTRONICS INC	16.83	7	135	109
CANON MARKETING JAPAN INC	21.80	6	141	135
CAPCOM CO LTD	20.07	101	2,137	2,033
CAPITA PLC	1.34	123	262	165
CAPITAL & COUNTIES PROPERTIES	2.76	44	166	122
CAPITAL POWER CORP	23.07	57	1,233	1,309
CAPITALAND RETAIL CHINA TRUST	1.15	85	101	98
CARD FACTORY PLC	2.24	209	488	467

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
CARGOTEC OYJ	38.01	2	158	93
CARSALES.COM LTD	9.49	14	121	131
CASCADES INC	8.07	11	135	86
CASTELLUM AB	19.14	22	332	412
CDL HOSPITALITY TRUSTS	1.20	18	23	22
CECONOMY AG	6.14	165	678	1,012
CEDAR WOODS PROPERTIES LTD	4.00	19	72	75
CELESTICA INC	6.84	16	214	109
CEMBRA MONEY BANK AG	96.56	2	148	151
CENTAMIN PLC	1.46	107	219	156
CENTERRA GOLD INC	7.06	85	493	603
CENTRAL ASIA METALS PLC	2.72	44	174	120
CENTRAL GLASS CO LTD	22.20	6	147	142
CENTURIA INDUSTRIAL REIT	2.15	49	100	106
CERVED GROUP SPA	8.88	9	103	76
CEWE STIFTUNG & CO KGAA	99.08	1	131	134
CHAMPION REIT	0.83	2,616	1,840	2,180
CHARTER COURT FINANCIAL SERVIC	3.77	45	178	168
CHARTER HALL EDUCATION TRUST	2.55	62	132	158
CHARTER HALL GROUP	7.60	283	1,345	2,154
CHARTER HALL LONG WALE REIT	3.52	38	135	133
CHARTER HALL RETAIL REIT	3.07	173	554	530
CHINA AVIATION OIL SINGAPORE C	0.98	77	94	76
CHINA LESSO GROUP HOLDINGS LTD	0.80	1,482	1,026	1,191
CHOW SANG SANG HOLDINGS INTERN	1.47	70	174	103
CHUDENKO CORP	20.79	3	99	71
CHUGOKU BANK LTD/THE	8.82	10	125	84
CI:Z HOLDINGS CO LTD	54.67	4	146	213
CIA DE DISTRIBUCION INTEGRAL L	22.68	82	2,101	1,862
CIE AUTOMOTIVE SA	28.99	6	240	167
CIE PLASTIC OMNIUM SA	26.11	5	214	132
CINEWORLD GROUP PLC	3.23	76	332	244
CITIC TELECOM INTERNATIONAL HO	0.40	340	130	135
CITIZEN WATCH CO LTD	5.13	23	156	118
CITYCON OYJ	10.43	7	90	72
CIVITAS SOCIAL HOUSING PLC	1.07	98	121	105
CKD CORP	10.14	10	142	100
CLEANAWAY WASTE MANAGEMENT LTD	1.64	148	190	242
CLOETTA AB	3.25	345	1,074	1,122
CLOSE BROTHERS GROUP PLC	18.00	12	240	223
CMIC HOLDINGS CO LTD	18.96	7	123	123
COBHAM PLC	1.36	88	132	119
COFACE SA	10.10	16	174	162
COGECO INC	63.94	3	163	205
COLLIERS INTL GROUP INC	71.65	2	104	139
COMET HOLDING AG	97.03	0	42	32
COMFORTDELGRO CORP LTD	1.97	360	587	708
COMPUGROUP MEDICAL SE	80.85	23	1,611	1,888
COMPUTACENTER PLC	16.95	114	1,530	1,935

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
COMPUTER ENGINEERING & CONSULT	22.01	13	230	275
COMPUTER MODELLING GROUP LTD	5.57	11	81	61
COMSYS HOLDINGS CORP	25.36	8	175	205
CONCENTRIC AB	14.98	26	389	389
CONSTRUCCIONES Y AUXILIAR DE F	45.89	2	95	99
CONTACT ENERGY LTD	5.37	38	141	203
CONZZETA AG	849.23	0	93	77
CORBION NV	32.62	3	87	89
CORESTATE CAPITAL HOLDING SA	34.22	3	155	96
CORP FINANCIERA ALBA SA	52.50	18	992	938
CORPORATE TRAVEL MANAGEMENT LT	15.79	7	131	114
CORTICEIRA AMORIM SGPS SA	11.59	7	101	80
COSMO ENERGY HOLDINGS CO LTD	22.53	5	138	113
COSMOS PHARMACEUTICAL CORP	169.76	2	309	289
COTT CORP	13.35	113	1,541	1,503
COTT CORP	13.38	4	67	53
COUNTRYSIDE PROPERTIES PLC	3.80	43	186	163
COVIVIO	102.95	0	18	21
CRAMO OYJ	23.78	5	165	131
CRESCENT POINT ENERGY CORP	3.31	58	229	192
CREST NICHOLSON HOLDINGS PLC	4.54	32	219	147
CROMWELL PROPERTY GROUP	0.81	143	107	116
CSR LTD	2.74	38	123	105
CT REIT	10.88	12	133	133
CTS EVENTIM AG & CO KGAA	46.60	4	161	168
CUSTODIAN REIT PLC	1.51	53	80	81
CYBG PLC	2.45	62	215	152
DAETWYLER HOLDING AG	152.41	0	58	42
DAH SING BANKING GROUP LTD	1.80	77	163	139
DAH SING FINANCIAL HOLDINGS LT	4.67	20	165	95
DAIDO STEEL CO LTD	37.92	3	155	106
DAIICHI JITSUGYO CO LTD	28.59	2	85	69
DAIICHIKOSHO CO LTD	46.50	8	389	367
DAIKEN CORP	20.41	3	76	61
DAILY MAIL & GENERAL TRUST PLC	9.94	33	314	332
DAINICHISEIKA COLOR & CHEMICAL	28.08	12	383	323
DAISEKI CO LTD	25.00	7	225	178
DAISHI HOKUETSU FINANCIAL GROU	25.60	6	257	150
DAIWA OFFICE INVESTMENT CORP	7,174.68	0	143	165
DAIWABO HOLDINGS CO LTD	47.61	13	558	629
DALATA HOTEL GROUP PLC	5.36	28	216	149
DANIELI & C OFFICINE MECCANICH	12.60	5	93	67
DART GROUP PLC	10.63	79	837	836
DCM HOLDINGS CO LTD	9.82	18	156	180
DE' LONGHI SPA	20.25	4	143	89
DECHRA PHARMACEUTICALS PLC	34.95	4	94	141
DELEK GROUP LTD	171.71	1	116	117
DENKA CO LTD	29.65	6	136	163
DENYO CO LTD	13.47	7	128	93

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
DERICHEBOURG SA	3.85	44	199	170
DERMAPHARM HOLDING SE	34.51	8	258	285
DERWENT LONDON PLC	39.66	61	2,283	2,437
DESCARTES SYS GROUP INC	37.08	7	182	269
DETOUR GOLD CORP	12.64	44	417	550
DEUTSCHE BETEILIGUNGS AG	38.66	3	155	135
DEUTSCHE EUROSHOP AG	27.67	4	144	98
DEUTSCHE PFANDBRIEFBANK AG	12.05	16	262	197
DEUTZ AG	9.76	217	1,767	2,120
DIALOG SEMICONDUCTOR PLC	40.38	112	3,685	4,539
DIASORIN SPA	116.27	2	227	285
DIC ASSET AG	11.55	32	367	367
DIC CORP	26.40	6	204	153
D'IETEREN SA/NV	46.01	72	3,121	3,331
DIOS FASTIGHETER AB	7.40	24	152	177
DIPLOMA PLC	19.50	11	168	222
DIVERSIFIED GAS & OIL PLC	1.41	196	265	277
DIXONS CARPHONE PLC	1.39	98	195	137
DKSH HOLDING AG	58.67	2	136	142
DMG MORI CO LTD	16.01	39	541	621
DNO ASA	1.81	599	1,014	1,085
DOMETIC GROUP AB	10.02	20	175	201
DOMINO'S PIZZA GROUP PLC	3.54	22	79	76
DORMAKABA HOLDING AG	725.64	0	182	146
DOUTOR NICHIRE HOLDINGS CO LT	18.93	59	1,164	1,115
DOWA HOLDINGS CO LTD	32.07	6	219	196
DOWNER EDI LTD	4.86	87	409	420
DRAX GROUP PLC	3.31	503	2,363	1,665
DREAM GLOBAL REIT	10.45	23	201	242
DREAM INDUSTRIAL REIT	9.03	11	99	98
DREAM OFFICE REIT	18.09	15	277	270
DREAM UNLIMITED CORP	5.56	22	168	123
DS SMITH PLC	4.61	87	476	403
DTS CORP	20.85	16	328	329
DUERR AG	34.13	4	210	121
DULUXGROUP LTD	6.54	27	143	178
DUNDEE PRECIOUS METALS INC	3.73	45	146	168
DUNELM GROUP PLC	11.71	257	2,314	3,009
DUSKIN CO LTD	26.28	18	479	476
DYNAM JAPAN HOLDINGS CO LTD	1.33	203	271	269
EBARA CORP	27.14	6	156	155
EBRO FOODS SA	21.43	6	137	126
ECKERT & ZIEGLER STRAHLEN- UND	117.98	4	427	455
ECN CAPITAL CORP	3.23	26	79	84
EDION CORP	9.29	101	989	937
EI GROUP PLC	2.50	759	1,838	1,899
EIKEN CHEMICAL CO LTD	15.84	4	97	67
ELECTROCOMPONENTS PLC	8.05	23	176	189
ELEKTA AB	14.52	21	208	309

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ELEMENT FLEET MANAGEMENT CORP	7.32	29	210	210
ELIA SYSTEM OPERATOR SA/NV	73.79	3	151	195
ELIS SA	18.16	6	119	102
ELIS SA	18.20	3	73	59
ELKEM ASA	2.82	385	1,280	1,086
EMIS GROUP PLC	15.48	150	1,816	2,323
EMMI AG	936.41	0	102	126
EMPIRIC STUDENT PROPERTY PLC	1.16	128	169	148
ENAV SPA	5.68	79	418	451
ENERFLEX LTD	13.05	11	125	139
ENERPLUS CORP	7.54	18	140	132
ENGHOUSE SYSTEMS LTD	26.50	4	105	100
EN-JAPAN INC	38.94	2	86	78
ENTERTAINMENT ONE LTD	5.05	40	186	205
ENTRA ASA	15.36	136	1,875	2,085
EQUITABLE GROUP INC	55.55	4	181	195
EQUITAL LTD	31.40	5	145	153
ERAMET	66.57	12	735	791
ERG SPA	20.50	4	69	75
ESPRINET SPA	3.65	3	13	13
EUROCOMMERCIAL PROPERTIES NV	26.76	3	127	83
EUROMONEY INSTITUTIONAL INVEST	16.57	15	231	242
EURONEXT NV	75.79	4	190	278
EVN AG	15.15	5	74	79
EVOLUTION GAMING GROUP AB	19.81	205	3,065	4,065
EVOLUTION MINING LTD	3.06	377	899	1,155
EVOTEC SE	27.99	14	286	402
EVRAZ PLC	8.47	32	205	269
EXEDY CORP	20.94	6	167	126
EZAKI GLICO CO LTD	44.55	3	153	120
FABEGE AB	15.06	23	236	341
FAES FARMA SA	4.72	140	557	659
FALCK RENEWABLES SPA	4.20	64	176	268
FANCL CORP	24.60	8	202	192
FAR EAST CONSORTIUM INTERNATIO	0.46	237	133	109
FAROE PETROLEUM PLC	2.04	99	191	203
FASTIGHETS AB BALDER	33.52	63	1,816	2,123
FCC CO LTD	20.91	8	188	169
FERREXPO PLC	3.53	535	1,584	1,889
FEVERTREE DRINKS PLC	29.50	8	159	224
FFP	107.73	9	942	1,007
FIERA MILANO SPA	4.23	108	472	457
FINNAIR OYJ	7.97	8	117	64
FINNING INTERNATIONAL INC	18.27	13	222	236
FIRST INTERNATIONAL BANK OF IS	25.29	6	105	144
FIRST RESOURCES LTD	1.18	63	87	74
FIRSTGROUP PLC	1.24	701	864	872
FIRSTSERVICE CORP	96.42	2	137	209
FLSMIDTH & CO A/S	45.30	2	154	108

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
FLUGHAFEN ZURICH AG	188.51	5	897	922
FLY LEASING LTD	17.41	41	548	712
FORBO HOLDING AG	1,768.21	1	2,214	2,332
FORTERRA PLC	3.77	10	36	37
FORTUNA SILVER MINES INC	2.85	28	131	79
FRASERS CENTREPOINT TRUST	1.92	55	102	105
FRASERS COMMERCIAL TRUST	1.23	100	116	123
FRASERS LOGISTICS & INDUSTRIAL	0.89	127	104	113
FREENET AG	20.04	8	248	156
FRENI BREMBO SPA	11.54	6	87	67
FRONTIER REAL ESTATE INVESTMEN	4,269.54	0	310	303
F-TECH INC	6.98	26	296	181
FUJI OIL HOLDINGS INC	30.17	4	101	124
FUJI SEAL INTERNATIONAL INC	30.58	4	122	135
FUJITEC CO LTD	13.07	7	81	85
FUKUI COMPUTER HOLDINGS INC	23.15	11	193	259
FUNAI SOKEN HOLDINGS INC	24.21	4	85	94
FURUKAWA ELECTRIC CO LTD	29.28	97	2,626	2,845
FUYO GENERAL LEASE CO LTD	56.90	20	1,113	1,115
GALAPAGOS NV	109.53	2	191	269
GALENICA AG	50.26	3	140	138
GALLIFORD TRY PLC	8.02	9	107	73
GAMES WORKSHOP GROUP PLC	63.20	6	237	368
GAZIT-GLOBE LTD	8.26	12	117	100
GAZTRANSPORT ET TECHNIGAZ SA	100.39	5	349	495
GB GROUP PLC	7.04	16	94	112
GCP STUDENT LIVING PLC	2.06	78	151	162
GDI PROPERTY GROUP	0.97	286	245	278
GENEL ENERGY PLC	2.46	390	995	958
GENESIS ENERGY LTD	2.33	48	86	111
GENUS PLC	33.70	2	52	53
GENWORTH MI CANADA INC	31.71	66	1,856	2,079
GENWORTH MORTGAGE INSURANCE AU	1.97	837	1,596	1,650
GEO HOLDINGS CORP	12.81	7	111	92
GEORG FISCHER AG	956.92	0	259	254
GERRESHEIMER AG	73.74	2	142	129
GETINGE AB	15.77	66	851	1,044
GIBSON ENERGY INC	17.87	8	101	137
GIMV NV	63.20	3	191	199
GLANBIA PLC	16.28	12	248	198
GLOBAL ONE REAL ESTATE INVESTM	1,246.52	0	59	62
GLORY LTD	26.40	41	1,020	1,072
GLP J-REIT	1,139.78	0	433	441
GN STORE NORD A/S	46.73	163	6,571	7,621
GO-AHEAD GROUP PLC/THE	25.10	47	1,230	1,174
GOODMAN PROPERTY TRUST	1.30	177	161	230
GRAFTON GROUP PLC	10.26	24	232	251
GRAINCORP LTD	5.59	15	109	83
GRAINGER PLC	3.13	36	63	111

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
GRAND CITY PROPERTIES SA	22.89	37	868	851
GRANGES AB	11.47	14	134	163
GRANITE REIT	46.14	45	1,823	2,066
GREAT CANADIAN GAMING CORP	33.98	7	119	227
GREAT PORTLAND ESTATES PLC	8.71	226	2,218	1,967
GREEN REIT PLC	2.06	77	129	160
GREENE KING PLC	7.87	27	244	210
GREGGS PLC	29.25	281	5,891	8,210
GRENKE AG	107.50	2	184	166
GROWTHPOINT PROPERTIES AUSTRAL	2.89	150	422	433
GRUPO CATALANA OCCIDENTE SA	37.01	4	180	160
G-TEKT CORP	14.15	23	396	330
GULF KEYSTONE PETROLEUM LTD	2.87	659	1,903	1,891
GUNGHO ONLINE ENTERTAINMENT IN	27.66	38	1,114	1,039
GUNMA BANK LTD/THE	3.50	122	530	425
GURIT HOLDING AG	1,050.26	0	127	119
GURUNAVI INC	6.18	107	789	662
GWA GROUP LTD	2.40	446	938	1,071
H2O RETAILING CORP	11.53	6	107	67
HACHIJUNI BANK LTD/THE	4.07	80	341	328
HALFORDS GROUP PLC	2.86	37	166	106
HAMAKYOREX CO LTD	35.27	6	201	226
HAMBURGER HAFEN UND LOGISTIK A	26.47	46	1,326	1,210
HAMMERSON PLC	3.53	34	123	120
HANG LUNG GROUP LTD	2.77	95	249	263
HANSTEEN HOLDINGS PLC	1.24	88	140	110
HANWA CO LTD	26.74	40	1,108	1,067
HAREL INSURANCE INVESTMENTS &	7.49	21	128	159
HASEKO CORP	10.12	16	198	162
HAYS PLC	2.00	2,670	6,938	5,338
HEIWA CORP	20.54	34	701	688
HEIWA REAL ESTATE CO LTD	20.43	9	155	192
HELICAL PLC	4.69	29	122	137
HELVETIA HOLDING AG	125.64	2	275	303
HEMBLA AB	19.51	9	148	171
HEMFOSA FASTIGHETER AB	9.46	15	107	144
HERA SPA	3.83	161	560	615
HEXPOL AB	8.15	15	163	124
HIBERNIA REIT PLC	1.65	96	153	158
HIKMA PHARMACEUTICALS PLC	21.92	88	1,890	1,924
HILL & SMITH HOLDINGS PLC	14.90	1	18	16
HI-P INTERNATIONAL LTD	1.03	351	354	360
HIROSHIMA BANK LTD/THE	4.82	277	1,523	1,336
HIS CO LTD	24.88	3	86	72
HISCOX LTD	21.53	20	335	440
HITACHI CAPITAL CORP	22.23	44	957	987
HOGY MEDICAL CO LTD	29.52	5	142	136
HOKKOKU BANK LTD/THE	28.12	4	158	115
HOKUETSU CORP	5.39	43	219	231

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
HOKUHOKU FINANCIAL GROUP INC	10.40	25	307	263
HOLLYWOOD BOWL GROUP PLC	2.85	58	170	167
HOLMEN AB	21.35	9	191	184
HOME CAPITAL GROUP INC	14.84	17	242	255
HOMESERVE PLC	15.11	194	2,907	2,924
HORIBA LTD	51.61	2	153	119
HOSIDEN CORP	11.09	109	1,124	1,209
HOUSE FOODS GROUP INC	37.54	37	1,435	1,378
HOWDEN JOINERY GROUP PLC	6.45	44	242	285
HUBER + SUHNER AG	84.31	34	2,591	2,830
HUDBAY MINERALS INC	5.43	44	301	239
HUFVUDSTADEN AB	17.02	13	209	217
HUHTAMAKI OYJ	41.18	6	216	229
HULIC REIT INC	1,736.59	0	321	330
IAMGOLD CORP	3.39	31	160	106
IBIDEN CO LTD	17.51	5	90	88
IBJ LEASING CO LTD	25.03	7	171	178
IBSTOCK PLC	3.09	35	110	107
IDP EDUCATION LTD	12.39	504	3,876	6,247
IG GROUP HOLDINGS PLC	7.44	25	183	187
ILUKA RESOURCES LTD	7.56	310	2,046	2,343
IMA INDUSTRIA MACCHINE AUTOMAT	82.96	1	108	96
IMCD NV	91.79	4	237	352
IMI PLC	13.21	14	213	179
IMMOBILIARE GRANDE DISTRIBUZIONE	-	-	-	-
IMMOFINANZ AG	26.10	6	146	169
INABA DENKI SANGYO CO LTD	41.95	5	174	193
INABATA & CO LTD	12.80	12	161	157
INCHCAPE PLC	7.84	26	259	206
INDEPENDENCE GROUP NL	3.31	265	837	877
INDUS HOLDING AG	44.98	2	118	74
INDUSTRIAL & INFRASTRUCTURE FU	1,243.73	0	322	325
INDUTRADE AB	31.99	6	138	189
INES CORP	10.66	74	775	793
INFICON HOLDING AG	610.77	0	51	63
INFOMART CORP	15.60	21	353	323
INFRASTRUTTURE WIRELESS ITALIA	9.83	15	110	144
INFRATIL LTD	3.12	38	109	117
INMARSAT PLC	6.93	25	164	176
IMMOBILIARIA COLONIAL SOCIMI S	11.15	21	176	231
INTERFOR CORP	10.67	11	142	113
INTERMEDIATE CAPITAL GROUP PLC	17.58	14	145	238
INTERPUMP GROUP SPA	30.82	5	146	156
INTERRENT REIT	10.56	14	113	143
INTERROLL HOLDING AG	2,517.95	0	142	199
INTERTRUST NV	20.69	93	1,761	1,918
INTERVEST OFFICES & WAREHOUSES	28.13	5	117	139
INTERXION HOLDING NV	76.09	4	176	296
INTRUM AB	25.69	11	331	293

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
INVESTMENT AB ORESUND	13.24	6	104	81
INVINCIBLE INVESTMENT CORP	517.91	1	442	480
INWIDO AB	6.94	16	111	109
IOOF HOLDINGS LTD	3.63	24	177	86
IPSOS	26.42	4	143	99
IREN SPA	2.60	56	134	145
IRESS LTD	9.78	15	136	143
IRISH RESIDENTIAL PROPERTIES R	1.92	101	155	193
ISHARES MSCI EAFE ETF	65.73	26	1,725	1,728
ISHIHARA SANGYO KAISHA LTD	11.69	9	86	103
ISRA VISION AG	44.62	7	320	330
ISRAEL CORP LTD/THE	242.56	1	118	135
ISRAEL DISCOUNT BANK LTD	4.09	457	1,473	1,866
ITALGAS SPA	6.73	768	4,888	5,170
ITO EN LTD	46.59	101	4,539	4,692
ITOCHU TECHNO-SOLUTIONS CORP	25.64	9	225	238
ITURAN LOCATION AND CONTROL LT	30.09	4	109	107
IVANHOE MINES LTD	3.18	35	96	111
IWATANI CORP	34.71	139	4,704	4,829
IWG PLC	4.33	36	134	158
IYO BANK LTD/THE	5.05	20	160	102
IZUMI CO LTD	40.42	2	105	73
J D WETHERSPOON PLC	18.17	9	166	169
JACCS CO LTD	19.91	5	84	96
JAFCO CO LTD	36.62	26	965	945
JAPAN AVIATION ELECTRONICS IND	14.67	28	377	404
JAPAN EXCELLENT INC	1,468.35	0	309	305
JAPAN HOTEL REIT INVESTMENT CO	805.64	0	150	168
JAPAN LOGISTICS FUND INC	2,289.77	0	324	325
JAPAN RENTAL HOUSING INVESTMEN	777.80	0	311	311
JAPAN SECURITIES FINANCE CO LT	5.10	20	109	103
JAPAN WOOL TEXTILE CO LTD/THE	7.81	16	139	128
JB HI-FI LTD	18.14	7	122	130
JCR PHARMACEUTICALS CO LTD	58.20	2	76	105
JD SPORTS FASHION PLC	7.46	295	1,624	2,200
JENOPTIK AG	32.40	97	3,647	3,138
JERUSALEM ECONOMY LTD	3.83	53	192	203
JM AB	23.01	7	247	159
JOHN LAING GROUP PLC	5.01	130	593	652
JOHNSON ELECTRIC HOLDINGS LTD	2.14	52	183	111
JOSHIN DENKI CO LTD	19.71	5	132	95
JTEKT CORP	12.12	233	2,863	2,829
JUNGHEINRICH AG	30.86	43	1,420	1,338
JUPITER FUND MANAGEMENT PLC	5.38	31	207	167
JUPITER MINES LTD	0.24	432	106	105
JUST EAT PLC	7.95	33	281	260
JUST GROUP PLC	0.72	1,241	1,541	889
JUSTSYSTEMS CORP	32.44	4	82	143
JVCKENWOOD CORP	2.32	189	459	438

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
JYSKE BANK A/S	34.71	5	256	159
K WAH INTERNATIONAL HOLDINGS L	0.58	328	193	192
K+S AG	18.65	9	158	167
KAGA ELECTRONICS CO LTD	14.41	16	327	225
KAGOME CO LTD	23.25	4	134	95
KAINOS GROUP PLC	8.30	20	166	169
KAKAKU.COM INC	19.31	42	798	819
KAKEN PHARMACEUTICAL CO LTD	46.78	2	107	94
KANAMOTO CO LTD	25.86	66	1,701	1,718
KANDENKO CO LTD	8.35	72	686	604
KANEMATSU CORP	11.08	124	1,406	1,374
KARDEX AG	174.77	13	2,013	2,261
KAZ MINERALS PLC	7.68	101	896	773
KBC ANCORA	44.75	30	1,343	1,332
KEIHIN CORP	14.32	10	132	139
KEMIRA OYJ	14.74	7	85	97
KENEDIX OFFICE INVESTMENT CORP	7,156.12	0	120	157
KEPPEL REIT	0.93	143	118	133
KERRY LOGISTICS NETWORK LTD	1.80	558	877	1,005
KESKO OYJ	55.71	4	199	211
KEWPIE CORP	22.10	33	770	720
KEYWORDS STUDIOS PLC	23.23	6	59	146
KILLAM APT REAL ESTATE INVTR	14.38	7	71	105
KINAXIS INC	62.50	1	97	93
KINDEN CORP	15.32	15	237	224
KINDRED GROUP PLC	8.49	15	166	123
KINTETSU WORLD EXPRESS INC	13.04	15	215	197
KIRKLAND LAKE GOLD LTD	42.92	31	1,054	1,326
KISSEI PHARMACEUTICAL CO LTD	24.97	12	311	287
KIWI PROPERTY GROUP LTD	1.07	129	133	138
KIYO BANK LTD/THE	12.73	12	211	154
KLA CORP	118.20	1	108	111
KLOVERN AB	1.57	122	139	192
KOBE STEEL LTD	6.54	18	131	117
KOHNAN SHOJI CO LTD	20.79	4	82	79
KOKUYO CO LTD	14.00	10	136	141
KONECRANES OYJ	38.23	4	183	159
KONINKLIJKE VOLKERWESSELS NV	20.11	44	1,070	890
KONISHI CO LTD	14.85	8	109	111
KONOIKE TRANSPORT CO LTD	15.76	8	108	123
KORIAN SA	38.10	4	149	161
KOTOBUKI SPIRITS CO LTD	46.96	1	68	66
KRONES AG	80.80	1	95	65
K'S HOLDINGS CORP	9.44	19	192	181
KUMAGAI GUMI CO LTD	29.56	29	880	854
KUNGSLEDEN AB	8.26	27	163	220
KURABO INDUSTRIES LTD	17.82	7	159	128
KUREHA CORP	68.22	2	121	164
KYOKUTO KAIHATSU KOGYO CO LTD	12.45	9	151	116

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
KYOWA EXEO CORP	24.89	12	208	296
KYUDENKO CORP	30.03	2	104	66
LABRADOR IRON ORE ROYALTY CORP	26.80	7	88	189
LAGARDERE SCA	26.08	7	208	193
LAI SUN DEVELOPMENT CO LTD	1.48	53	96	78
LANCASHIRE HOLDINGS LTD	8.76	11	101	99
LANDIS+GYR GROUP AG	79.74	5	357	384
LANGHAM HOSPITALITY INVESTMENT	0.39	251	106	97
LAR ESPANA REAL ESTATE SOCIMI	7.77	131	1,037	1,015
LASALLE LOGIPOINT REIT	1,184.33	0	282	354
LASERTEC CORP	39.63	4	87	147
LAURENTIAN BANK OF CANADA	34.42	4	161	135
LEG IMMOBILIE AG	112.97	5	533	604
LENZING AG	111.60	1	176	114
LEROY SEAFOOD GROUP ASA	6.62	34	194	228
LIFCO AB	55.45	51	2,546	2,840
LINAMAR CORP	37.41	5	178	197
LINDAB INTERNATIONAL AB	11.51	284	2,548	3,268
LINK ADMINISTRATION HOLDINGS L	3.51	17	114	61
LINTEC CORP	20.84	7	160	140
LISI	32.40	3	129	102
LOGITECH INTERNATIONAL SA	40.01	19	759	777
LONDONMETRIC PROPERTY PLC	2.69	82	180	219
LONKING HOLDINGS LTD	0.27	1,020	420	272
LOOKERS PLC	0.65	87	136	56
LOOMIS AB	34.40	5	182	158
LPE-EARNEST PARTNERS	1.00	476,937	476,937	476,937
LUK FOOK HOLDINGS INTERNATIONAL	3.14	43	142	135
LXI REIT PLC	1.62	74	118	120
MACAU LEGEND DEVELOPMENT LTD	0.14	692	121	97
MACNICA FUJI ELECTRONICS HOLDI	13.23	9	139	123
MAEDA CORP	8.00	10	119	80
MAEDA ROAD CONSTRUCTION CO LTD	21.04	9	170	179
MAGELLAN FINANCIAL GROUP LTD	35.79	43	995	1,535
MAINFREIGHT LTD	27.34	1	24	30
MAKINO MILLING MACHINE CO LTD	40.33	33	1,303	1,319
MAN GROUP PLC/JERSEY	1.98	139	310	275
MANDOM CORP	24.21	3	87	63
MANI INC	64.14	4	168	244
MANULIFE US REAL ESTATE INVEST	0.87	131	118	113
MAPLE LEAF FOODS INC	21.95	6	161	142
MAPLETREE COMMERCIAL TRUST	1.54	162	185	250
MAPLETREE INDUSTRIAL TRUST	1.66	137	181	227
MAPLETREE LOGISTICS TRUST	1.18	184	165	216
MAPLETREE NORTH ASIA COMMERCIA	1.08	214	175	230
MARSHALLS PLC	8.69	13	64	116
MARSTON'S PLC	1.49	85	135	126
MARTINREA INTERNATIONAL INC	8.31	17	143	145
MARUZEN SHOWA UNYU CO LTD	31.74	38	1,033	1,213

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Issuer	Price	Shares	Cost	Market Value
MATAS A/S	10.86	11	192	123
MATSUMOTOKIYOSHI HOLDINGS CO L	29.24	5	151	146
MCCARTHY & STONE PLC	1.74	72	156	125
MCUBS MIDCITY INVESTMENT CORP	941.15	0	288	284
MEDIASET ESPANA COMUNICACION S	7.28	246	2,026	1,790
MEG ENERGY CORP	3.84	37	266	144
MEIDENSHA CORP	15.63	81	1,103	1,258
MEITEC CORP	51.33	12	599	601
MELCO INTERNATIONAL DEVELOPMEN	2.22	169	347	375
MELEXIS NV	67.76	2	132	109
MELISRON LTD	53.83	2	118	120
MENORA MIVTACHIM HOLDINGS LTD	15.20	8	115	121
MERCURY NZ LTD	3.12	60	158	188
MERLIN PROPERTIES SOCIMI SA	13.89	185	2,367	2,574
MERSEN SA	38.43	2	87	87
METCASH LTD	1.80	335	604	604
METROPOLE TELEVISION SA	18.96	5	106	86
METROVACESA SA	10.80	5	92	55
METSA BOARD OYJ	5.38	32	375	173
MIGDAL INSURANCE & FINANCIAL H	1.05	107	113	113
MILBON CO LTD	48.45	2	85	116
MIMASU SEMICONDUCTOR INDUSTRY	14.92	19	301	278
MINERAL RESOURCES LTD	10.51	9	124	96
MIRAIT HOLDINGS CORP	14.80	7	96	107
MITCHELLS & BUTLERS PLC	3.65	138	509	504
MITSUBOSHI BELTING LTD	17.65	8	171	136
mitsui SUGAR CO LTD	20.68	5	137	97
MIURA CO LTD	30.86	6	119	182
MIXI INC	20.06	74	1,797	1,490
MIYAZAKI BANK LTD/THE	22.36	8	232	179
MOBIMO HOLDING AG	266.15	1	153	148
MOCHIDA PHARMACEUTICAL CO LTD	42.56	3	133	128
MODEC INC	28.22	5	107	141
MONADELPHOUS GROUP LTD	13.20	9	92	117
MONEYSUPERMARKET.COM GROUP PLC	5.25	107	432	560
MONOGATARI CORP/THE	79.73	1	77	79
MORGUARD CORP	143.33	2	322	344
MORGUARD NORTH AMERICAN REIT	14.10	63	808	895
MORGUARD REIT	9.30	54	571	505
MORI HILLS REIT INVESTMENT COR	1,416.37	0	137	157
MORINAGA & CO LTD/JAPAN	48.73	44	1,913	2,144
MORNEAU SHEPELL INC	22.63	5	74	106
MORPHOSYS AG	96.17	2	130	177
MTY FOOD GROUP INC	50.02	3	147	156
MUSASHINO BANK LTD/THE	18.88	5	164	102
NAGASE & CO LTD	14.99	104	1,525	1,562
NAKANISHI INC	18.37	6	86	116
NANKAI ELECTRIC RAILWAY CO LTD	24.32	6	160	146
NATIONAL EXPRESS GROUP PLC	5.11	204	1,059	1,040

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
NAVIGATOR CO SA/THE	3.82	28	123	106
NCC AB	17.35	5	131	80
NEMETSCHEK SE	60.30	123	6,136	7,443
NEOPOST SA	21.41	5	215	101
NET ONE SYSTEMS CO LTD	27.52	9	176	245
NETLINK NBN TRUST	0.66	146	90	96
NEW HOPE CORP LTD	1.90	26	49	50
NEW WAVE GROUP AB	6.96	13	91	92
NEWRIVER REIT PLC	2.27	27	118	60
NEXANS SA	33.62	57	1,754	1,912
NEXITY SA	43.27	3	164	122
NFI GROUP INC	28.24	4	187	124
NHK SPRING CO LTD	7.72	20	209	154
NIB HOLDINGS LTD/AUSTRALIA	5.38	36	185	196
NIBE INDUSTRIER AB	14.65	23	216	336
NICHIAS CORP	17.98	4	97	72
NICHIDEN CORP	17.36	4	84	71
NICHIREI CORP	23.73	23	617	553
NICK SCALI LTD	4.39	52	238	227
NIFCO INC/JAPAN	24.77	5	127	114
NIHON KOHDEN CORP	27.08	9	259	252
NIHON M&A CENTER INC	23.98	30	717	727
NIHON PARKERIZING CO LTD	11.08	9	143	103
NIHON UNISYS LTD	33.55	8	192	258
NIKKISO CO LTD	13.31	25	246	334
NIKKON HOLDINGS CO LTD	22.94	8	197	193
NINE ENTERTAINMENT CO HOLDINGS	1.32	131	245	172
NIPPO CORP	19.70	9	184	179
NIPPON ACCOMMODATIONS FUND INC	5,606.09	0	150	174
NIPPON CARBON CO LTD	38.33	12	550	445
NIPPON DENSETSU KOGYO CO LTD	20.06	6	135	128
NIPPON KAYAKU CO LTD	12.04	13	189	156
NIPPON KOEI CO LTD	22.00	5	143	108
NIPPON LIGHT METAL HOLDINGS CO	2.16	155	331	334
NIPPON PAPER INDUSTRIES CO LTD	17.71	19	326	335
NIPPON REIT INVESTMENT CORP	3,888.99	0	315	311
NIPPON ROAD CO LTD/THE	56.15	2	111	118
NIPPON SEIKI CO LTD	17.17	7	143	122
NIPPON SHEET GLASS CO LTD	6.80	22	174	150
NIPPON SHINYAKU CO LTD	70.54	3	190	205
NIPPON SHOKUBAI CO LTD	66.09	2	140	145
NIPPON SODA CO LTD	25.33	3	94	71
NIPPON STEEL TRADING CORP	41.21	4	162	144
NIPPON SUISAN KAISHA LTD	6.20	654	4,164	4,053
NISHIMATSU CONSTRUCTION CO LTD	19.28	7	190	131
NISHI-NIPPON FINANCIAL HOLDING	7.19	20	244	147
NISHIO RENT ALL CO LTD	28.26	12	363	325
NISSHIN OILLIO GROUP LTD/THE	27.98	32	940	884
NISSHINBO HOLDINGS INC	7.64	8	108	62

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
NISSIN ELECTRIC CO LTD	10.92	26	276	285
NITTA CORP	28.22	5	168	152
NITTETSU MINING CO LTD	43.30	5	279	234
NOBINA AB	6.21	1	6	6
NOEVIR HOLDINGS CO LTD	54.67	3	134	142
NOF CORP	37.27	6	153	224
NOLATO AB	61.06	45	3,137	2,777
NOMAD FOODS LTD	21.36	22	453	470
NORBORD INC	24.84	4	110	92
NORITAKE CO LTD/NAGOYA JAPAN	41.91	5	169	201
NORMA GROUP SE	41.50	2	116	74
NORTH PACIFIC BANK LTD	2.38	47	166	112
NORTH WEST CO INC (THE)	22.87	4	100	90
NORTHERN STAR RESOURCES LTD	8.18	40	159	326
NORTHGATE PLC	4.42	19	130	85
NORTHLAND POWER INC	19.51	117	2,119	2,277
NORTHVIEW APARTMENT REIT	20.59	5	107	113
NORWEGIAN FINANS HOLDING ASA	7.27	16	123	116
NOS SGPS SA	6.58	40	258	264
NS SOLUTIONS CORP	31.74	109	3,346	3,450
NSD CO LTD	28.91	11	328	321
NSI NV	42.42	3	134	134
NYFOSA AB	6.28	21	93	135
OC OERLIKON CORP AG	12.23	13	167	159
OCEANAGOLD CORP	2.74	69	221	188
OCI NV	27.49	9	236	241
OESTERREICHISCHE POST AG	33.65	24	1,051	806
OIL REFINERIES LTD	0.51	342	153	175
OITA BANK LTD/THE	28.03	4	149	107
OKUMA CORP	51.33	3	141	154
OKUMURA CORP	30.58	5	188	162
OLAV THON EIENDOMSSSELSKAP ASA	16.89	9	161	156
ONESAVINGS BANK PLC	4.61	230	1,274	1,060
ONOKEN CO LTD	12.72	36	552	456
ONTEX GROUP NV	16.15	4	160	70
ORIOR AG	84.62	1	55	61
ORIX JREIT INC	1,824.76	0	213	252
ORORA LTD	2.27	54	116	123
ORPEA	120.83	3	304	318
OSG CORP	19.71	7	142	146
OSRAM LICHT AG	32.98	8	233	270
OUE LTD	1.11	207	223	229
OUTOKUMPU OYJ	3.42	27	206	91
OYO CORP	10.09	43	544	438
OZ MINERALS LTD	7.04	225	1,583	1,587
P2P GLOBAL INVESTMENTS PLC	10.74	19	205	200
PACIFIC INDUSTRIAL CO LTD	14.36	11	143	161
PAGEGROUP PLC	6.53	310	2,148	2,022
PALTAC CORPORATION	54.95	4	135	214

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
PAN AMERICAN SILVER CORP	0.40	24	-	10
PAN AMERICAN SILVER CORP	12.96	10	246	132
PANALPINA WELTTRANSPORT HOLDIN	230.56	1	279	292
PANDOX AB	18.43	11	181	210
PARAGON BANKING GROUP PLC	5.58	25	139	138
PAREX RESOURCES INC	16.08	136	2,119	2,189
PARKLAND FUEL CORP	31.80	7	171	236
PAZ OIL CO LTD	140.58	1	194	161
PEAB AB	8.55	27	274	227
PENNON GROUP PLC	9.45	25	276	238
PER AARSLEFF HOLDING A/S	35.70	31	1,036	1,107
PERPETUAL LTD	29.64	3	121	87
PETS AT HOME GROUP PLC	2.38	258	518	615
PHOENIX GROUP HOLDINGS PLC	9.02	47	406	421
PHOENIX HOLDINGS LTD/THE	6.05	25	106	150
PIAGGIO & C SPA	2.94	639	1,606	1,878
PICTON PROPERTY INCOME LTD/THE	1.25	68	82	85
PIOLAX INC	17.46	6	152	96
PLAYTECH PLC	5.43	61	467	333
PLUS500 LTD	-	-	-	-
PLUS500 LTD	6.64	10	120	64
PRECINCT PROPERTIES NEW ZEALAN	1.19	198	178	236
PREMIUM BRANDS HOLDINGS CORP	68.50	2	132	128
PRESS KOGYO CO LTD	4.53	31	142	140
PRESTIGE INTERNATIONAL INC	14.85	5	64	77
PRIMARY HEALTH PROPERTIES PLC	1.70	91	138	154
PROSIEBENSAT.1 MEDIA SE	15.73	24	391	377
PROSPERITY REIT	0.44	373	159	163
PSP SWISS PROPERTY AG	117.03	3	319	396
QINETIQ GROUP PLC	3.56	1,107	4,107	3,936
QUBE HOLDINGS LTD	2.13	109	221	232
QUILTER PLC	1.79	109	160	194
RATHBONE BROTHERS PLC	28.25	4	123	106
RATIONAL AG	689.54	0	146	171
RDI REIT PLC	-	-	-	-
REDROW PLC	6.92	399	3,113	2,763
REGIONAL REIT LTD	1.37	101	120	139
REGIS RESOURCES LTD	3.71	718	2,182	2,661
REIT 1 LTD	5.13	38	142	193
RELIANCE WORLDWIDE CORP LTD	2.47	44	148	110
RELO GROUP INC	25.18	6	117	144
REN - REDES ENERGETICAS NACION	2.74	43	137	118
RENGO CO LTD	8.03	237	1,968	1,900
RENISHAW PLC	54.19	2	72	82
REPLY SPA	68.27	6	372	429
RESURS HOLDING AB	5.96	18	115	109
REXEL SA	12.71	28	324	355
RHEINMETALL AG	122.59	3	282	350
RIB SOFTWARE SE	20.54	5	102	94

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
RIGHTMOVE PLC	6.81	63	340	425
RIKEN CORP	38.15	4	160	141
RINGKJOEBING LANDBOBANK A/S	65.00	3	180	178
RITCHIE BROS AUCTIONEERS INC	33.33	8	223	253
ROCKET INTERNET SE	28.88	8	201	236
ROCKWOOL INTERNATIONAL A/S	255.72	4	1,123	1,140
ROHTO PHARMACEUTICAL CO LTD	27.14	95	2,944	2,573
ROTORK PLC	4.03	60	184	242
ROVIO ENTERTAINMENT OYJ	8.13	72	420	582
ROYAL MAIL PLC	2.70	115	299	311
ROYAL UNIBREW A/S	73.09	3	158	239
RPC GROUP PLC	10.09	25	247	255
RUBIS SCA	56.39	5	303	298
RUSSEL METALS INC	16.91	6	113	99
RWS HOLDINGS PLC	8.25	13	102	107
S IMMO AG	21.68	9	125	185
S&T AG	23.32	7	109	175
SAAB AB	32.57	4	222	143
SACYR SA	0.06	56	3	3
SACYR SA	2.43	56	158	136
SAFESTORE HOLDINGS PLC	7.81	26	147	202
SAIPEM SPA	4.98	52	208	258
SAKAI MOVING SERVICE CO LTD	58.94	1	60	71
SALMAR ASA	43.50	21	799	920
SALZGITTER AG	28.68	53	1,711	1,519
SAN-AI OIL CO LTD	9.70	13	127	128
SANBIO CO LTD	32.11	2	182	77
SANDFIRE RESOURCES NL	4.69	634	3,004	2,977
SAN-IN GODO BANK LTD/THE	6.40	23	216	147
SANKI ENGINEERING CO LTD	11.58	144	1,583	1,665
SANKYU INC	52.53	40	1,874	2,112
SANWA HOLDINGS CORP	10.75	11	121	117
SANYO CHEMICAL INDUSTRIES LTD	52.72	3	128	142
SARACEN MINERAL HOLDINGS LTD	2.58	71	137	182
SARAS SPA	1.51	64	153	97
SAVILLS PLC	11.42	11	118	120
SAWAI PHARMACEUTICAL CO LTD	54.02	35	1,791	1,864
SBANKEN ASA	8.54	13	121	111
SBM OFFSHORE NV	19.34	11	162	206
SCANDI STANDARD AB	6.90	50	340	344
SCANDIC HOTELS GROUP AB	8.82	14	188	125
SCANDINAVIAN TOBACCO GROUP A/S	11.67	9	140	100
SCHOUW & CO A/S	76.29	2	182	125
SCHWEITER TECHNOLOGIES AG	942.56	0	105	87
SCOUT24 AG	53.20	20	974	1,047
SCREEN HOLDINGS CO LTD	41.72	2	172	100
SCSK CORP	49.19	3	139	143
SEINO HOLDINGS CO LTD	13.32	57	745	758
SEKISUI HOUSE REIT INC	748.10	2	1,420	1,445

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
SEKISUI JUSHI CORP	19.58	8	152	161
SEMAPA-SOCIEDADE DE INVESTIMEN	14.08	5	104	77
SENIOR PLC	2.75	41	125	113
SENKO GROUP HOLDINGS CO LTD	7.90	18	136	143
SENSHU IKEDA HOLDINGS INC	1.85	48	200	89
SERCO GROUP PLC	1.83	85	147	156
SEVEN GENERATIONS ENERGY LTD	4.91	62	297	307
SFS GROUP AG	85.23	1	144	104
SHAFTESBURY PLC	10.23	4	55	45
SHENG SIONG GROUP LTD	0.81	38	29	31
SHIGA BANK LTD/THE	23.21	6	158	139
SHIKOKU BANK LTD/THE	8.37	10	142	85
SHIKOKU ELECTRIC POWER CO INC	9.24	11	153	104
SHIKUN & BINUI LTD	2.92	69	200	203
SHIMACHU CO LTD	23.25	3	67	65
SHINAGAWA REFRACTORIES CO LTD	27.44	12	515	332
SHINKO ELECTRIC INDUSTRIES CO	8.46	160	1,331	1,353
SHINMAYWA INDUSTRIES LTD	12.72	14	110	173
SHIP HEALTHCARE HOLDINGS INC	43.16	4	136	155
SHIZUOKA GAS CO LTD	7.62	17	168	130
SHO-BOND HOLDINGS CO LTD	35.27	6	197	198
SHOPPING CENTRES AUSTRALASIA P	1.68	90	161	152
SHOWA CORP	13.48	56	810	756
SHOWA DENKO KK	29.42	11	425	335
SHUN TAK HOLDINGS LTD	0.40	3,874	1,553	1,552
SIEGFRIED HOLDING AG	348.72	0	81	80
SIGNIFY NV	29.61	236	6,280	6,997
SILTRONIC AG	73.16	22	2,293	1,574
SILVERCORP METALS INC	2.48	38	113	94
SIMCORP A/S	96.89	3	172	270
SIMS METAL MANAGEMENT LTD	7.62	12	119	90
SINOPEC SHANGHAI PETROCHEMICAL	0.40	1,434	790	569
SINTOKOGIO LTD	8.74	7	92	64
SIRIUS REAL ESTATE LTD	0.85	165	146	140
SITC INTERNATIONAL HOLDINGS CO	1.02	129	126	131
SIXT SE	107.28	1	129	152
SKY PERFECT JSAT HOLDINGS INC	3.90	35	163	136
SKYCITY ENTERTAINMENT GROUP LT	2.55	31	98	80
SKYLARK HOLDINGS CO LTD	17.46	15	248	253
SMARTGROUP CORP LTD	5.85	106	903	621
SMARTONE TELECOMMUNICATIONS HO	0.95	550	720	524
SOCIETA CATTOLICA DI ASSICURAZ	8.96	18	145	161
SOCIETA INIZIATIVE AUTOSTRADAL	18.57	9	101	169
SODASTREAM INTERNATIONAL LTD	144.00	2	89	248
SOFINA SA	190.86	8	1,384	1,431
SOFTCAT PLC	12.36	13	89	157
SOFTWARE AG	34.39	56	2,480	1,934
SOITEC	109.67	2	249	257
SOJITZ CORP	3.21	91	219	292

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Issuer	Price	Shares	Cost	Market Value
SONAE SGPS SA	0.97	546	601	528
SOPRA STERIA GROUP	116.73	4	487	422
SOTETSU HOLDINGS INC	27.56	5	149	138
SPAR NORD BANK A/S	8.80	10	132	92
SPAREBANK 1 NORD NORGE	7.96	20	132	160
SPAREBANK 1 SMN	11.46	20	165	228
SPAREBANK 1 SR-BANK ASA	12.19	18	199	225
SPARK INFRASTRUCTURE GROUP	1.71	97	200	166
SPECTRIS PLC	36.63	8	272	294
SPIE SA	18.60	6	158	105
SPIN MASTER CORP	28.98	2	84	58
SPIRENT COMMUNICATIONS PLC	1.94	507	988	987
SQUARE ENIX HOLDINGS CO LTD	32.02	5	158	144
SSAB AB	3.05	309	1,326	941
SSAB AB	3.49	54	237	188
SSP GROUP PLC	8.73	29	197	251
SSR MINING INC	13.71	12	114	162
ST GALLER KANTONALBANK AG	451.28	0	105	110
ST MARC HOLDINGS CO LTD	21.30	2	46	43
ST MODWEN PROPERTIES PLC	5.57	29	168	164
STANDARD LIFE INVESTMENT PROPE	1.20	96	124	116
STANTEC INC	24.05	8	188	184
STAR ENTERTAINMENT GRP LTD/THE	2.89	52	193	150
STEADFAST GROUP LTD	2.46	47	99	116
STELLA-JONES INC	36.17	5	180	190
STO SE & CO KGAA	112.17	1	122	114
STOREBRAND ASA	7.35	38	242	279
STRAUSS GROUP LTD	28.74	3	78	81
STROEER SE & CO KGAA	75.22	1	89	89
STUDIO ALICE CO LTD	18.89	15	337	291
SUBSEA 7 SA	12.04	23	292	278
SUGI HOLDINGS CO LTD	47.24	3	142	123
SULZER AG	109.44	5	565	580
SUMITOMO BAKELITE CO LTD	35.69	5	164	164
SUMITOMO DENSETSU CO LTD	15.87	4	88	65
SUMITOMO FORESTRY CO LTD	11.98	256	3,939	3,070
SUMITOMO MITSUI CONSTRUCTION C	5.54	33	183	180
SUMITOMO OSAKA CEMENT CO LTD	39.73	3	148	123
SUMITOMO WAREHOUSE CO LTD/THE	12.76	10	128	125
SUMMERSET GROUP HOLDINGS LTD	3.74	28	117	103
SUMMIT INDUSTRIAL INCOME REIT	9.86	9	88	89
SUN FRONTIER FUDOUSAN CO LTD	9.44	223	2,553	2,103
SUN HUNG KAI & CO LTD	0.47	377	246	176
SUNEVISION HOLDINGS LTD	0.87	140	105	122
SUNLIGHT REAL ESTATE INVESTMEN	0.77	257	166	197
SUNRISE COMMUNICATIONS GROUP A	74.72	2	143	135
SUN-WA TECHNOS CORP	7.92	23	320	178
SUPERIOR PLUS CORP	10.22	9	79	94
SUSHIRO GLOBAL HOLDINGS LTD	59.68	28	1,758	1,647

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
SVENSKA CELLULOSA AB SCA	8.70	43	412	372
SWECO AB	27.46	38	1,016	1,035
SWEDISH ORPHAN BIOVITRUM AB	19.28	11	186	203
SYDBANK A/S	19.09	6	228	120
SYNTHOMER PLC	4.75	19	116	88
SYSTEMA CORP	16.35	22	261	360
TAG IMMOBILIEN AG	23.14	63	1,357	1,461
TAIYO YUDEN CO LTD	18.61	12	191	220
TAKARA HOLDINGS INC	10.46	14	184	151
TAKARA LEBEN CO LTD	3.55	121	376	430
TAKARA STANDARD CO LTD	15.83	10	158	150
TAKASAGO INTERNATIONAL CORP	27.29	3	130	93
TAKE AND GIVE NEEDS CO LTD	9.97	3	26	25
TAKEAWAY.COM NV	93.84	5	405	430
TAKEUCHI MANUFACTURING CO LTD	17.87	17	310	311
TALGO SA	6.24	19	122	120
TAMBURI INVESTMENT PARTNERS SP	6.39	2	14	15
TAMRON CO LTD	20.47	5	102	100
TANSEISHA CO LTD	11.61	36	380	413
TASSAL GROUP LTD	3.44	46	136	158
TATE & LYLE PLC	9.40	32	299	302
TECAN GROUP AG	259.69	1	160	214
TECHNOLOGY ONE LTD	5.53	26	117	146
TECHNOPRO HOLDINGS INC	53.09	4	199	228
TEIJIN LTD	17.05	94	1,562	1,594
TELECOM PLUS PLC	17.95	6	113	116
TELEKOM AUSTRIA AG	7.56	53	458	400
TELEVISION FRANCAISE 1	10.55	10	86	107
TELFORD HOMES PLC	4.00	19	101	74
TETHYS OIL AB	8.03	98	707	789
TFI INTERNATIONAL INC	30.33	70	1,885	2,109
TGS NOPEC GEOPHYSICAL CO ASA	28.06	129	3,202	3,626
THULE GROUP AB	24.72	7	139	181
TIETO OYJ	29.68	4	110	105
TIS INC	50.96	47	1,750	2,415
TKH GROUP NV	62.12	3	157	172
TLG IMMOBILIEN AG	29.32	9	214	277
TMX GROUP LTD	69.71	16	1,004	1,119
TOAGOSEI CO LTD	10.51	17	213	175
TODA CORP	5.53	24	158	134
TOEI ANIMATION CO LTD	46.41	4	161	186
TOEI CO LTD	139.04	16	1,857	2,183
TOHO HOLDINGS CO LTD	22.41	18	453	410
TOKAI CARBON CO LTD	10.43	21	354	214
TOKEN CORP	-	-	-	-
TOKUYAMA CORP	27.03	38	1,036	1,022
TOKYO BROADCASTING SYSTEM HOLD	17.08	95	1,756	1,626
TOKYO OHKA KOGYO CO LTD	31.23	2	73	69
TOKYO SEIMITSU CO LTD	25.70	3	103	77

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
TOKYO STEEL MANUFACTURING CO L	7.56	246	1,958	1,856
TOKYO TATEMONO CO LTD	11.11	18	206	203
TOKYU CONSTRUCTION CO LTD	6.76	210	1,858	1,417
TOMONY HOLDINGS INC	3.36	25	124	84
TOMRA SYSTEMS ASA	32.89	8	202	279
TOMY CO LTD	11.63	146	1,624	1,703
TOPDANMARK A/S	56.48	3	125	154
TOPRE CORP	16.62	5	134	83
TOPY INDUSTRIES LTD	23.45	5	149	124
TOROMONT INDUSTRIES LTD	47.50	7	237	315
TOSHIBA PLANT SYSTEMS & SERVIC	18.80	5	81	94
TOWA BANK LTD/THE	6.36	10	113	62
TOWA PHARMACEUTICAL CO LTD	25.39	74	1,746	1,874
TOWER SEMICONDUCTOR LTD	15.35	7	156	106
TOYO CONSTRUCTION CO LTD	3.91	167	667	652
TOYO INK SC HOLDINGS CO LTD	21.60	6	150	123
TP ICAP PLC	3.81	33	201	124
TPR CO LTD	16.99	18	381	310
TRANSALTA CORP	6.52	17	103	111
TRANSALTA RENEWABLES INC	10.60	20	207	212
TRANSCONTINENTAL INC	11.17	11	224	128
TRAVIS PERKINS PLC	16.22	14	195	227
TRELLEBORG AB	14.21	16	379	229
TRICON CAPITAL GROUP INC	7.65	23	202	174
TRITAX BIG BOX REIT PLC	1.96	157	279	308
TS TECH CO LTD	27.22	6	187	172
TSINGTAO BREWERY CO LTD	6.37	228	1,418	1,454
TSUBAKIMOTO CHAIN CO	32.62	5	231	176
TSUMURA & CO	27.89	5	187	126
TSURUHA HOLDINGS INC	92.44	43	3,555	3,947
TSURUMI MANUFACTURING CO LTD	18.15	11	196	196
TULLOW OIL PLC	2.67	112	233	298
TV ASAHI HOLDINGS CORP	16.13	7	124	111
UACJ CORP	17.04	50	1,261	846
UBE INDUSTRIES LTD	20.74	10	241	201
ULVAC INC	31.70	3	131	79
UNIONE DI BANCHE ITALIANE SPA	2.73	71	306	194
UNIPOL GRUPPO SPA	4.88	35	144	172
UNIPRES CORP	16.43	67	1,497	1,099
UNIQA INSURANCE GROUP AG	9.33	14	123	132
UNITE GROUP PLC/THE	12.40	29	263	358
UNITED ENGINEERS LTD	1.91	9	17	16
UNITED INC/JAPAN	13.75	38	691	524
URANIUM PARTICIPATION CORP	3.21	37	128	119
USHIO INC	12.88	9	126	115
UT GROUP CO LTD	24.27	22	504	544
UTD DRUG ORD EURO.05(DUBLIN	3.32	14	152	45
VALENER INC	19.76	7	123	142
VALIANT HOLDING AG	108.72	1	159	152

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
VALMET OYJ	24.96	230	5,508	5,749
VALOR HOLDINGS CO LTD	20.75	14	341	291
VASTNED RETAIL NV	32.34	2	71	73
VAT GROUP AG	123.33	2	209	202
VENTURE CORP LTD	12.04	142	2,420	1,705
VERTU MOTORS PLC	0.51	264	123	135
VESUVIUS PLC	6.97	22	141	150
VETROPACK HOLDING AG	2,128.21	0	912	843
VICAT SA	49.77	2	111	77
VICTORIA PARK AB	4.10	22	96	90
VICTREX PLC	27.54	6	165	172
VIDRALA SA	94.29	6	551	561
VIENNA INSURANCE GROUP AG WIEN	25.68	7	194	185
VISCOFAN SA	52.45	3	171	148
VITAL KSK HOLDINGS INC	9.47	105	1,096	998
VITASOY INTERNATIONAL HOLDINGS	4.81	368	1,150	1,769
VITROLIFE AB	19.51	41	799	794
VIVA ENERGY GROUP LTD	1.48	138	211	204
VIVA ENERGY REIT	1.82	574	1,012	1,048
VOCUS GROUP LTD	2.29	101	211	232
VONTOBEL HOLDING AG	55.69	2	109	95
VOSTOK NEW VENTURES LTD	6.14	31	176	193
VSTECs HOLDINGS LTD	0.56	146	81	81
VTECH HOLDINGS LTD	8.95	29	363	259
WACKER NEUSON SE	25.19	6	134	155
WACOAL HOLDINGS CORP	25.96	3	91	86
WAJAX CORP	-	-	-	-
WAKITA & CO LTD	9.67	12	134	115
WALLENIUS WILHELMSSEN ASA	2.97	27	157	81
WALLENSTAM AB	10.58	15	146	161
WAREHOUSES DE PAUW CVA	168.54	1	109	177
WERELDHAVE NV	26.24	70	2,040	1,849
WESTERN FOREST PRODUCTS INC	1.22	81	135	99
WH SMITH PLC	25.07	222	5,852	5,559
WHITECAP RESOURCES INC	3.25	24	164	79
WHITEHAVEN COAL LTD	2.57	561	1,468	1,441
WIENERBERGER AG	24.71	8	174	187
WIHLBORGS FASTIGHETER AB	14.51	83	999	1,208
WILLIAM HILL PLC	1.97	145	253	285
WINPAK LTD	33.06	3	118	85
WISETECH GLOBAL LTD	19.45	12	108	227
WORKSPACE GROUP PLC	11.12	15	182	172
WORLD CO LTD	19.15	14	278	260
WUESTENROT & WUERTTEMBERGISCHE	21.55	48	1,061	1,038
XING SE	427.62	0	112	155
XINYI GLASS HOLDINGS LTD	1.05	150	142	157
YAMANA GOLD INC	2.54	72	211	184
YAMATO KOGYO CO LTD	29.14	8	198	236
YAMAZEN CORP	9.62	124	1,355	1,194

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Issuer	Price	Shares	Cost	Market Value
YANLORD LAND GROUP LTD	0.95	443	526	422
YELLOW HAT LTD	13.35	12	148	161
YOKOGAWA BRIDGE HOLDINGS CORP	16.10	10	146	164
YOROZU CORP	12.54	8	116	98
YUASA TRADING CO LTD	27.94	33	957	917
ZARDOYA OTIS SA	7.61	13	138	101
ZEAL NETWORK SE	22.50	21	535	477
ZENSHO HOLDINGS CO LTD	20.33	44	1,020	898
ZEON CORP	11.11	19	192	207
Developed International Equity		565,633	\$ 1,065,865	\$ 1,075,811
Developed International Equity Receivable				1,012
Total Developed International Equity				\$ 1,076,823

Emerging Markets Equity				
ABERDEEN EMERGING MARKETS	\$	69.09	5,309	\$ 366,789
BLACKROCK EME		51.14	2,963	151,557
BLACKROCK EME SMALL CAP		12.33	10,168	125,358
LSV EMERGING MARKETS EQUITY		304.87	1,914	583,496
NUMERIC EME SMALL CAP		886.95	289	256,598
SCHRODER EMF FUND NO 500 DNQ		9,985.81	15	149,460
WILLIAM BLAIR EMERGING MARKETS		16.79	22,336	375,014
Emerging Markets Equity			42,994	\$ 1,888,322
Emerging Markets Equity Receivable				-
Total Emerging Markets Equity				\$ 2,008,273

Issuer	Price	Shares	Cost	Market Value
Equity Options Strategy				
AMERICAN EXPRESS CREDIT AC 1 A	\$	100.32	10,000	\$ 10,032
AMERICAN HONDA FINANCE CO 144A		101.87	4,065	4,141
AMERICAN HONDA FINANCE CORP		99.95	1,926	1,925
AMERICAN HONDA FINANCE CORP		100.22	7,000	7,015
APPLE INC		99.58	7,350	7,319
APPLE INC		99.88	3,000	2,996
AQR STYLE PREMIA		1.39	342,356	476,840
AQR VOLATILITY RISK		1.06	359,964	380,277
AT&T INC		100.25	5,000	5,012
AT&T INC		100.70	7,323	7,374
AUSTRALIA & NEW ZEALAND B 144A		100.15	1,000	1,002
BA CREDIT CARD TRUST A1 A1		101.03	11,700	11,820
BANK OF AMERICA NA		100.07	7,950	7,955
BANK OF MONTREAL/CHICAGO IL		100.04	1,500	1,501
BANK OF NEW YORK MELLON/THE		100.06	7,480	7,484
BANK OF NOVA SCOTIA/HOUSTON		100.11	12,100	12,113
BARCLAYS BANK PLC		100.09	3,660	3,663
BMW US CAPITAL LLC 144A		100.09	7,800	7,807
CANADIAN IMPERIAL BANK OF COMM		100.22	13,000	13,028
CATERPILLAR FINANCIAL SERVICES		99.23	5,115	5,075
CATERPILLAR FINANCIAL SERVICES		100.17	1,425	1,427
CISCO SYSTEMS INC		100.26	1,925	1,930

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
CITIBANK CREDIT CARD ISS A3 A3	99.79	5,440	5,341	5,429
CITIBANK CREDIT CARD ISS A6 A6	99.99	4,875	4,920	4,874
CITIBANK CREDIT CARD ISS A8 A8	99.72	2,000	2,000	1,994
CITIBANK CREDIT CARD ISS A9 A9	99.86	3,000	3,000	2,996
CITIBANK NA	100.04	2,225	2,225	2,226
CITIBANK NA	100.54	9,150	9,156	9,200
CITIGROUP INC	101.07	2,358	2,390	2,383
COOPERATIEVE RABOBANK UA/NY	100.04	7,000	7,000	7,003
CREDIT AGRICOLE CORPORATE AND	100.11	8,000	8,000	8,008
CREDIT AGRICOLE SA/LONDON 144A	100.72	2,875	2,898	2,896
CREDIT SUISSE AG/NEW YORK NY	102.14	7,700	7,857	7,865
DANSKE BANK A/S 144A	99.85	5,950	5,950	5,941
EBAY INC	100.04	4,300	4,301	4,302
EXXON MOBIL CORP	99.83	7,459	7,458	7,446
FORD CREDIT AUTO OWNER T A A2A	100.02	589	589	589
FORD CREDIT AUTO OWNER T A A2A	100.40	8,925	8,924	8,960
FORD CREDIT AUTO OWNER T B A2A	100.30	5,813	5,813	5,831
FORD CREDIT AUTO OWNER T C A2A	99.96	257	257	256
HONDA AUTO RECEIVABLES 20 1 A2	99.99	817	817	817
HONDA AUTO RECEIVABLES 20 2 A2	100.31	6,750	6,750	6,771
HONDA AUTO RECEIVABLES 20 3 A2	100.13	3,351	3,351	3,355
HONEYWELL INTERNATIONAL INC	99.37	3,350	3,219	3,329
HSBC HOLDINGS PLC	100.08	13,210	13,233	13,220
HYUNDAI AUTO RECEIVABLES A A3	99.76	5,220	5,164	5,207
HYUNDAI AUTO RECEIVABLES B A2	100.39	3,000	3,000	3,012
HYUNDAI AUTO RECEIVABLES B A3	101.84	2,500	2,500	2,546
IBM CREDIT LLC	100.00	7,420	7,428	7,420
JOHN DEERE CAPITAL CORP	100.00	2,600	2,600	2,600
JOHN DEERE CAPITAL CORP	100.24	9,390	9,429	9,412
JOHN DEERE CAPITAL CORP	100.30	2,135	2,134	2,141
JOHNSON & JOHNSON	100.68	4,000	3,989	4,027
JPMORGAN CHASE & CO	99.97	7,532	7,468	7,530
KREDITANSTALT FUER WIEDERAUFBA	100.97	1,300	1,343	1,313
LLOYDS BANK CORPORATE MARKETS	99.80	10,030	10,030	10,010
MICROSOFT CORP	99.79	2,000	1,975	1,996
MICROSOFT CORP	99.88	6,121	6,050	6,114
MIZUHO BANK LTD/NY	100.10	2,950	2,949	2,953
NATIONAL BANK OF CANADA	99.95	3,630	3,630	3,628
NESTLE HOLDINGS INC 144A	104.24	2,630	2,697	2,742
NESTLE HOLDINGS INC REGS	99.67	3,884	3,814	3,871
NISSAN AUTO RECEIVABLES 2 B A2	100.31	4,000	4,000	4,012
NISSAN AUTO RECEIVABLES A A2A	100.00	517	517	517
NISSAN AUTO RECEIVABLES A A2B	100.01	517	517	517
NISSAN AUTO RECEIVABLES C A2A	100.54	7,000	7,000	7,038
NORDEA BANK ABP/NEW YORK NY	99.98	10,050	10,050	10,048
NOVARTIS CAPITAL CORP	99.70	6,180	6,156	6,161
PFIZER INC	99.75	2,720	2,657	2,713
PFIZER INC	99.76	7,766	7,755	7,747
PROVINCE OF QUEBEC CANADA	100.02	8,980	8,980	8,981

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Issuer	Price	Shares	Cost	Market Value
PROVINCE OF QUEBEC CANADA	100.14	10,265	10,282	10,280
RECKITT BENCKISER TREASUR 144A	99.65	4,360	4,360	4,345
RECKITT BENCKISER TREASUR 144A	99.91	2,455	2,453	2,453
RIB FLOATER TRUST	100.00	3,000	3,000	3,000
S & P 500 INDEX (SPX)	600.00	(0)	(1,600)	(221)
S & P 500 INDEX (SPX)	1,540.00	(0)	(1,504)	(568)
S & P 500 INDEX (SPX)	3,950.00	(1)	(3,931)	(4,349)
S & P 500 INDEX (SPX)	4,010.00	(0)	(1,532)	(1,464)
S & P 500 INDEX (SPX)	6,170.00	(1)	(6,698)	(6,756)
SHELL INTERNATIONAL FINANCE BV	99.98	10,000	9,968	9,998
SKANDINAVISKA ENSKILDA BA 144A	100.23	7,700	7,700	7,718
SUMITOMO MITSUI BANKING CORP/N	100.03	12,375	12,363	12,378
SVENSKA HANDELSBANKEN AB	101.54	2,215	2,254	2,249
TENDER OPTION BOND TRUST RECEI	100.00	21,040	21,040	21,040
TORONTO-DOMINION BANK/THE	100.06	6,620	6,620	6,624
TOYOTA AUTO RECEIVABLES 2 D A2	100.19	2,000	2,000	2,004
TOYOTA AUTO RECEIVABLES A A2A	99.93	4,012	4,008	4,009
TOYOTA AUTO RECEIVABLES B A2A	100.35	5,760	5,760	5,780
TOYOTA AUTO RECEIVABLES D A2A	99.90	834	834	834
TOYOTA MOTOR CREDIT CORP	99.47	1,900	1,900	1,890
TOYOTA MOTOR CREDIT CORP	100.01	9,650	9,650	9,651
TWDC ENTERPRISES 18 CORP	100.12	10,775	10,776	10,788
TXBL MUNI FUNDING TRUST VARIOU	100.00	17,970	17,970	17,970
U S TREASURY NOTE	100.13	10,915	10,909	10,929
UBS AG/STAMFORD CT	99.99	7,000	6,973	6,999
UNILEVER CAPITAL CORP	100.17	1,435	1,423	1,437
UNILEVER CAPITAL CORP	102.25	2,500	2,488	2,556
US BANK NA/CINCINNATI OH	100.12	8,695	8,695	8,706
VERIZON COMMUNICATIONS INC	100.38	1,539	1,549	1,545
WALMART INC	100.23	2,025	2,025	2,030
WELLS FARGO BANK NA	100.09	4,360	4,360	4,364
WELLS FARGO BANK NA	100.11	7,060	7,060	7,067
WESTPAC BANKING CORP 144A	100.22	3,500	3,500	3,508
Equity Options Strategy		1,244,063	\$ 1,229,694	\$ 1,386,480
Equity Options Strategy Receivable				2,136
Total Equity Options Strategy			\$	1,388,616

Issuer	Price	Shares	Cost	Market Value
Public Global Equity				
3I GROUP PLC	\$ 14.17	21	\$ 288	\$ 300
3M CO	173.34	22	3,722	3,820
888 HOLDINGS PLC	2.07	0	0	0
A2 MILK CO LTD	9.85	68	667	666
A2A SPA	1.74	0	0	0
AA PLC	0.61	0	0	0
AAK AB	18.97	1	17	27
AALBERTS NV	39.37	0	1	1
AARON'S INC	61.41	0	5	12
ABB LTD	20.09	0	7	7

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ABBOTT LABORATORIES	84.10	128	8,221	10,788
ABBVIE INC	72.72	237	19,146	17,239
ABCAM PLC	18.76	6	50	113
ABEONA THERAPEUTICS INC	4.78	1	4	4
ABERCROMBIE & FITCH CO	16.04	7	129	112
ABIOMED INC	260.49	6	1,419	1,454
ACACIA COMMUNICATIONS INC	47.16	2	103	99
ACACIA MINING PLC	2.26	45	173	101
ACADIA PHARMACEUTICALS INC	26.73	0	3	3
ACCENTURE PLC	184.77	45	7,245	8,348
ACCOR SA	42.99	7	314	308
ACEA SPA	19.06	3	41	53
ACELRX PHARMACEUTICALS INC	2.53	1	1	1
ACS ACTIVIDADES DE CONSTRUCCIO	39.98	40	1,726	1,584
ACTIVISION BLIZZARD INC	47.20	36	1,595	1,702
ACUITY BRANDS INC	137.91	1	123	138
ADECCO GROUP AG	60.16	62	4,002	3,760
ADEVINTA ASA	11.12	1	6	6
ADIDAS AG	309.18	2	564	729
ADMIRAL GROUP PLC	28.10	38	1,012	1,058
ADOBE INC	294.65	70	13,942	20,544
ADT INC	6.12	2	14	13
ADTALEM GLOBAL EDUCATION INC	45.05	6	178	275
ADURO BIOTECH INC	1.54	0	0	0
ADVANCE AUTO PARTS INC	154.14	20	3,187	3,052
ADVANCED DISPOSAL SERVICES INC	31.91	0	5	6
ADVANCED ENERGY INDUSTRIES INC	56.27	0	5	6
ADVANCED MICRO DEVICES INC	30.37	114	2,443	3,476
ADVANTEST CORP	27.52	22	478	600
ADVAXIS INC	2.09	0	0	0
ADVERUM BIOTECHNOLOGIES INC	11.89	1	9	10
ADYEN NV	772.79	3	2,395	2,396
AECOM	37.85	0	14	15
AEGON NV	4.99	300	1,923	1,495
AENA SME SA	198.49	0	1	1
AEON CO LTD	17.18	260	5,256	4,465
AEON MALL CO LTD	15.05	17	318	262
AERCAP HOLDINGS NV	52.01	0	5	5
AEROJET ROCKETDYNE HOLDINGS IN	44.77	0	15	18
AEROPORTS DE PARIS	176.74	1	109	116
AES CORP/VA	16.76	134	2,140	2,253
AFLAC INC	54.81	34	1,251	1,858
AFRICA OIL CORP	1.00	0	0	0
AG MORTGAGE INVESTMENT TRUST I	15.90	1	8	8
AGEAS	52.05	141	6,897	7,342
AGGREKO PLC	10.05	24	284	238
AGILENT TECHNOLOGIES INC	74.67	90	5,502	6,706
AGL ENERGY LTD	14.04	0	3	2
AGRICULTURAL BANK OF CHINA LTD	0.42	216	98	90

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AHRESTY CORP	5.17	1	8	4
AIA GROUP LTD	10.78	108	1,013	1,165
AIMIA INC	2.92	2	5	5
AIN HOLDINGS INC	58.20	1	90	81
AIR CANADA	30.37	10	309	316
AIR LIQUIDE SA	140.13	0	22	24
AIR PRODUCTS & CHEMICALS INC	226.37	16	2,074	3,554
AIRBUS SE	141.99	41	4,513	5,869
AIXTRON SE	9.56	47	780	449
AKAMAI TECHNOLOGIES INC	80.14	34	2,519	2,704
AKCEA THERAPEUTICS INC	23.45	0	2	2
AKEBONO BRAKE INDUSTRY CO LTD	0.97	83	264	81
AKER BP ASA	28.69	1	34	30
AKER SOLUTIONS ASA	4.09	0	0	0
AKZO NOBEL NV	94.11	4	365	336
ALBANY INTERNATIONAL CORP	82.91	0	4	8
ALCOA CORP	23.41	2	38	40
ALCON INC	61.83	6	361	391
ALCON INC	62.05	0	6	7
ALEXION PHARMACEUTICALS INC	130.98	2	312	321
ALFA LAVAL AB	21.84	68	1,600	1,480
ALFRESA HOLDINGS CORP	24.67	57	1,484	1,414
ALGONQUIN POWER & UTIL CORP	12.14	2	19	19
ALIBABA PICTURES GROUP LTD	0.22	120	19	26
ALIGN TECHNOLOGY INC	273.70	5	1,580	1,494
ALIMENTATION COUCHE-TARD INC	63.06	70	4,011	4,395
ALKERMES PLC	22.54	14	335	323
ALLEGHANY CORP	681.11	0	147	204
ALLEGHENY TECHNOLOGIES INC	25.20	0	3	3
ALLEGION PLC	110.55	1	36	55
ALLERGAN PLC	167.43	35	5,624	5,843
ALLIANZ SE	241.43	57	11,516	13,686
ALLIED PROPERTIES REIT	36.25	0	10	11
ALLISON TRANSMISSION HOLDINGS	46.35	92	2,767	4,255
ALLSCRIPTS HEALTHCARE SOLUTION	11.63	10	121	117
ALLSTATE CORP/THE	101.69	47	3,457	4,798
ALMIRALL SA	18.49	10	145	184
ALPHABET INC-CL A	1,082.80	15	11,463	16,656
ALPHABET INC-CL C	1,080.91	9	6,477	9,846
ALPS ALPINE CO LTD	16.86	45	1,154	753
ALSTOM SA	46.46	0	1	2
ALSTRIA OFFICE REIT-AG	16.22	2	31	34
ALTICE USA INC	24.35	58	1,279	1,403
ALTIVUM LTD	24.00	4	69	90
ALTRA INDUSTRIAL MOTION CORP	35.88	2	77	86
ALTRIA GROUP INC	47.35	96	4,848	4,526
ALUMINA LTD	1.64	129	156	210
AMADEUS IT GROUP SA	79.33	45	3,352	3,604
AMAG PHARMACEUTICALS INC	9.99	4	92	41

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
AMAZON.COM INC	1,893.63	28	36,721	53,313
AMBARELLA INC	44.13	0	16	18
AMCOR PLC	11.36	14	158	161
AMCOR PLC	11.49	2	23	23
AMDOCS LTD	62.09	34	1,959	2,111
AMEDISYS INC	121.41	0	5	12
AMEREN CORP	75.11	51	3,587	3,833
AMERICAN ASSETS TRUST INC	47.12	0	5	5
AMERICAN CAMPUS COMMUNITIES IN	46.16	0	4	5
AMERICAN EAGLE OUTFITTERS INC	16.90	2	37	30
AMERICAN ELECTRIC POWER CO INC	88.01	46	3,420	4,086
AMERICAN EQUITY INVESTMENT LIF	27.16	1	15	19
AMERICAN EXPRESS CO	123.44	9	894	1,075
AMERICAN FINANCE TRUST INC	10.90	0	1	1
AMERICAN HOMES 4 RENT	24.31	0	2	2
AMERICAN OUTDOOR BRANDS CORP	9.01	9	136	85
AMERICAN PUBLIC EDUCATION INC	29.58	0	3	3
AMERICAN SUPERCONDUCTOR CORP	9.28	1	4	5
AMERICAN TOWER CORP	204.45	46	6,661	9,449
AMERICAN WATER WORKS CO INC	116.00	5	512	570
AMERIPRISE FINANCIAL INC	145.16	2	318	319
AMERISOURCEBERGEN CORP	85.26	3	255	256
AMETEK INC	90.84	14	948	1,226
AMGEN INC	184.28	33	6,247	6,164
AMNEAL PHARMACEUTICALS INC	7.17	1	11	5
AMPLIFON SPA	23.41	0	4	11
AMS AG	39.25	1	80	50
ANADARKO PETROLEUM CORP	70.56	17	1,066	1,209
ANALOG DEVICES INC	112.87	2	129	181
ANAPLAN INC	50.47	1	35	35
ANGI HOMESERVICES INC	13.01	1	11	10
ANGLO AMERICAN PLC	28.57	123	2,908	3,516
ANHEUSER-BUSCH INBEV SA/NV	88.64	15	1,172	1,304
ANHUI CONCH CEMENT CO LTD	6.27	18	108	113
ANI PHARMACEUTICALS INC	82.20	0	16	16
ANIMA HOLDING SPA	3.40	0	0	0
ANNALY CAPITAL MANAGEMENT INC	9.13	20	185	183
ANRITSU CORP	17.38	3	57	54
ANSELL LTD	18.84	0	0	0
ANSYS INC	204.82	0	9	20
ANTHEM INC	282.21	44	9,764	12,322
ANTOFAGASTA PLC	11.83	41	508	479
AO SMITH CORP	47.16	0	6	5
AO WORLD PLC	0.93	0	0	0
AON PLC	192.98	2	425	469
APACHE CORP	28.97	2	60	49
APAMAN CO LTD	7.13	1	16	10
APARTMENT INVESTMENT & MANAGEM	50.12	4	181	190
APERGY CORP	33.54	0	4	3

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
APPLE INC	197.92	261	40,372	51,683
APPLIED MATERIALS INC	44.91	271	11,186	12,167
APPLUS SERVICES SA	13.61	4	40	60
APTIV PLC	80.83	3	204	202
ARC RESOURCES LTD	4.91	1	5	3
ARCBEST CORP	28.11	0	9	6
ARCH CAPITAL GROUP LTD	37.08	7	196	264
ARCHER-DANIELS-MIDLAND CO	40.80	20	813	812
ARCONIC INC	25.82	17	423	433
ARCOSA INC	37.63	1	24	30
ARDELYX INC	2.69	0	1	1
ARDENT LEISURE GROUP LTD	0.74	0	0	0
ARES CAPITAL CORP	17.94	112	1,869	2,000
ARES COMMERCIAL REAL ESTATE CO	14.86	0	4	4
ARGENX SE	140.30	0	14	23
ARISTOCRAT LEISURE LTD	21.56	28	571	611
ARKEMA SA	93.13	2	180	153
ARMSTRONG WORLD INDUSTRIES INC	97.20	4	159	414
AROUNDTOWN SA	8.25	168	1,445	1,389
ARROW ELECTRONICS INC	71.27	0	7	7
ARROWHEAD PHARMACEUTICALS INC	26.50	4	103	101
ARTHUR J GALLAGHER & CO	87.59	10	831	899
ARTSPARK HOLDINGS INC	7.06	3	60	23
ARYZTA AG	1.15	0	0	0
ASAHI DIAMOND INDUSTRIAL CO LT	6.10	2	16	12
ASAHI HOLDINGS INC	20.30	4	77	73
ASAHI INTECC CO LTD	24.63	30	730	739
ASAHI KASEI CORP	10.66	9	113	92
ASALEO CARE LTD	0.64	8	5	5
ASHLAND GLOBAL HOLDINGS INC	79.97	1	69	72
ASHMORE GROUP PLC	6.48	0	2	2
ASHTREAD GROUP PLC	28.69	21	607	590
ASM INTERNATIONAL NV	65.21	0	2	2
ASML HOLDING NV	209.24	4	825	882
ASPEN TECHNOLOGY INC	124.28	1	38	87
ASSA ABLOY AB	22.62	1	19	21
ASSERTIO THERAPEUTICS INC	3.45	0	1	1
ASSICURAZIONI GENERALI SPA	18.86	7	128	136
ASSOCIATED BANC-CORP	21.14	1	15	15
ASSOCIATED BRITISH FOODS PLC	31.35	2	61	50
ASSURED GUARANTY LTD	42.08	1	19	21
ASTELLAS PHARMA INC	14.25	455	7,044	6,484
ASTRAZENECA PLC	81.94	95	6,944	7,793
AT&T INC	33.51	248	7,776	8,313
ATCO LTD	33.78	0	8	7
ATEAM INC	10.54	1	16	15
ATHENE HOLDING LTD	43.06	21	904	901
ATLANTIA SPA	26.09	1	13	14
ATLANTIC CAPITAL BANCSHARES IN	17.12	0	7	7

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ATLANTIC POWER CORP	2.42	15	37	37
ATLANTICA YIELD PLC	22.67	0	7	7
ATLAS COPCO AB	31.99	9	246	273
ATLASSIAN CORP PLC	130.84	2	105	236
ATMOS ENERGY CORP	105.56	15	1,472	1,600
ATOS SE	83.72	23	2,150	1,928
ATRESMEDIA CORP DE MEDIOS DE C	4.91	15	163	75
ATRICURE INC	29.84	0	12	12
AURINIA PHARMACEUTICALS INC	6.58	0	2	2
AURIZON HOLDINGS LTD	3.79	605	2,183	2,294
AUSNET SERVICES	1.32	1	1	1
AUSTRALIA & NEW ZEALAND BANKIN	19.80	0	1	1
AUSTRALIAN AGRICULTURAL CO LTD	0.70	0	0	0
AUSTRALIAN PHARMACEUTICAL INDU	0.93	0	0	0
AUTO TRADER GROUP PLC	6.97	117	751	815
AUTODESK INC	162.90	18	2,732	2,913
AUTOGRILL SPA	10.49	80	723	839
AUTOLIV INC	70.79	5	451	319
AUTOMATIC DATA PROCESSING INC	165.33	42	6,101	6,980
AUTOMOTIVE HOLDINGS GROUP LTD	1.96	0	0	0
AUTONATION INC	41.94	0	5	4
AUTOZONE INC	1,099.47	5	3,559	5,268
AVALONBAY COMMUNITIES INC	203.18	9	1,713	1,862
AVANGRID INC	50.50	2	98	111
AVERY DENNISON CORP	115.68	0	19	23
AVEVA GROUP PLC	51.44	2	49	81
AVICHINA INDUSTRY & TECHNOLOGY	0.55	54	32	30
AVISTA CORP	44.60	3	138	143
AVIVA PLC	5.30	147	914	778
AXA SA	26.31	226	5,405	5,956
AXALTA COATING SYSTEMS LTD	29.77	10	262	307
AXIS CAPITAL HOLDINGS LTD	59.65	1	28	30
AZRIELI GROUP LTD	67.01	3	158	179
B&M EUROPEAN VALUE RETAIL SA	4.24	9	37	39
B2GOLD CORP	3.05	4	10	12
BABCOCK INTERNATIONAL GROUP PL	5.83	0	3	3
BAE SYSTEMS PLC	6.31	298	2,208	1,879
BALFOUR BEATTY PLC	3.08	0	0	0
BALL CORP	69.99	30	1,695	2,124
BALOISE HOLDING AG	177.23	6	910	1,063
BANCA FARMAFACTORING SPA	5.58	0	1	1
BANCA POPOLARE DI SONDRIO SCPA	2.22	0	0	0
BANCO BILBAO VIZCAYA ARGENTARI	5.60	8	45	46
BANCO BPM SPA	2.04	88	184	180
BANCO COMERCIAL PORTUGUES SA	0.31	1,366	378	423
BANCO DE SABADELL SA	1.04	731	1,087	758
BANCO SANTANDER SA	4.65	496	2,345	2,307
BANDAI NAMCO HOLDINGS INC	48.54	46	1,939	2,228
BANK LEUMI LE-ISRAEL BM	7.22	286	1,791	2,065

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Issuer	Price	Shares	Cost	Market Value
BANK OF AMERICA CORP	29.00	107	3,025	3,108
BANK OF KYOTO LTD/THE	38.66	1	66	54
BANK OF MONTREAL	75.70	17	1,356	1,279
BANK OF NOVA SCOTIA	53.83	62	3,491	3,353
BANK OF NT BUTTERFIELD & SON L	33.96	0	13	14
BANK OF QUEENSLAND LTD	6.69	12	122	82
BANKIA SA	2.37	179	636	423
BANKINTER SA	6.90	3	19	20
BANKUNITED INC	33.74	0	14	13
BAPCOR LTD	3.92	2	7	8
BARCLAYS PLC	1.91	1,630	4,305	3,107
BARNES GROUP INC	56.34	0	5	9
BARRATT DEVELOPMENTS PLC	7.29	55	398	397
BARRICK GOLD CORP	14.00	59	863	822
BARRY CALLEBAUT AG	2,008.21	0	158	173
BASF SE	72.79	4	306	311
BAUSCH HEALTH COS INC	25.22	0	2	3
BAUSCH HEALTH COS INC	25.28	29	668	721
BAXTER INTERNATIONAL INC	81.90	1	75	90
BAYER AG	69.40	5	364	370
BAYERISCHE MOTOREN WERKE AG	74.12	20	1,797	1,467
BBA AVIATION PLC	3.59	0	1	1
BCE INC	45.59	1	36	36
BEAZER HOMES USA INC	9.61	0	4	4
BEAZLEY PLC	7.02	3	24	21
BECHTLE AG	115.02	4	206	434
BECTON DICKINSON AND CO	252.01	14	3,368	3,487
BED BATH & BEYOND INC	-	-	-	-
BEIERSDORF AG	120.20	0	2	2
BEKAERT SA	26.85	0	2	1
BELDEN INC	59.57	0	6	6
BELLWAY PLC	35.44	0	4	4
BENEFIT ONE INC	17.25	1	12	10
BENEFITFOCUS INC	27.15	0	4	3
BENESSE HOLDINGS INC	23.28	1	48	30
BERKELEY GROUP HOLDINGS PLC	47.48	12	601	558
BERKSHIRE HATHAWAY INC	213.17	68	10,447	14,585
BERRY GLOBAL GROUP INC	52.59	2	84	89
BERRY PETROLEUM CORP	10.60	0	1	1
BEST BUY CO INC	69.73	61	4,233	4,280
BHP GROUP LTD	28.88	454	10,439	13,106
BHP GROUP LTD	58.11	60	2,962	3,469
BHP GROUP PLC	25.64	505	10,948	12,962
BIG LOTS INC	28.61	0	14	11
BILFINGER SE	32.41	1	28	19
BINGO INDUSTRIES LTD	1.59	15	13	24
BIOCRIST PHARMACEUTICALS INC	3.79	0	1	2
BIOGEN INC	233.87	89	22,911	20,735
BIOHAVEN PHARMACEUTICAL HOLDIN	43.79	1	28	31

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
BIOMARIN PHARMACEUTICAL INC	85.65	1	111	103
BJ'S RESTAURANTS INC	43.94	0	7	4
BKW AG	66.87	0	23	21
BLACK HILLS CORP	78.17	0	8	8
BLACK KNIGHT INC	60.15	12	472	698
BLACKBERRY LIMITED	7.47	35	367	264
BLACKBERRY LTD	7.46	37	331	274
BLACKLINE INC	53.51	0	5	5
BLACKROCK MSCI WORLD INDEX	22.16	51,617	802,570	1,143,792
BLOOMIN' BRANDS INC	18.91	0	4	4
BLUCORA INC	30.37	0	5	6
BLUESCOPE STEEL LTD	8.46	133	1,375	1,127
BNP PARIBAS SA	47.56	59	3,677	2,813
BOARDWALK REAL ESTATE INVT	30.49	1	19	15
BODYCOTE PLC	10.52	5	37	49
BOEING CO/THE	364.01	46	10,992	16,674
BONTERRA ENERGY CORP	4.14	0	1	1
BOOHOO GROUP PLC	2.69	0	0	0
BOOKING HOLDINGS INC	1,874.71	2	4,126	4,499
BOOZ ALLEN HAMILTON HOLDING CO	66.21	1	28	33
BORAL LTD	3.59	12	46	45
BORGWARNER INC	41.98	2	58	63
BOSTON PROPERTIES INC	129.00	3	454	445
BOSTON SCIENTIFIC CORP	42.98	52	1,966	2,225
BOUYGUES SA	37.09	24	1,093	906
BOX INC	17.61	3	51	51
BP PLC	6.98	926	6,880	6,468
BP PLC	41.70	0	4	4
BPER BANCA	4.08	7	27	28
BRADY CORP	49.32	0	6	10
BRAMBLES LTD	9.04	74	582	665
BRANDYWINE REALTY TRUST	14.32	2	33	34
BREVILLE GROUP LTD	11.48	1	12	11
BRICKWORKS LTD	11.43	3	27	29
BRIGHTSPHERE INVESTMENT GROUP	11.41	1	13	13
BRINKER INTERNATIONAL INC	39.35	0	8	8
BRISTOL-MYERS SQUIBB CO	45.35	185	9,926	8,386
BRITISH AMERICAN TOBACCO PLC	34.87	60	3,004	2,078
BRITISH AMERICAN TOBACCO PLC	34.99	69	4,109	2,418
BRITISH LAND CO PLC/THE	6.85	64	638	441
BRIXMOR PROPERTY GROUP INC	17.88	39	611	701
BROADCOM INC	287.86	3	856	900
BROOKFIELD ASSET MGMT INC	47.94	0	5	5
BROTHER INDUSTRIES LTD	18.89	1	21	17
BRUKER CORP	49.95	15	382	754
BRUNSWICK CORP/DE	45.89	3	178	133
BT GROUP PLC	2.50	902	2,773	2,256
BTG PLC	10.63	4	35	46
BUCHER INDUSTRIES AG	345.03	0	67	61

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Issuer	Price	Shares	Cost	Market Value
BUILDERS FIRSTSOURCE INC	16.86	1	10	8
BUNZL PLC	26.43	48	1,488	1,265
BURBERRY GROUP PLC	23.70	155	4,337	3,679
BURLINGTON STORES INC	170.15	3	526	535
BWX TECHNOLOGIES INC	52.10	0	4	5
C&J ENERGY SERVICES INC	11.78	0	5	5
CABOT OIL & GAS CORP	22.96	0	2	2
CADENCE DESIGN SYSTEMS INC	70.81	86	5,519	6,058
CAE INC	26.94	16	433	443
CAFE DE CORAL HOLDINGS LTD	2.98	2	6	6
CAIRN ENERGY PLC	2.20	0	0	0
CAIRN HOMES PLC	1.35	0	0	0
CAIXABANK SA	2.87	33	107	94
CALAMP CORP	11.68	1	5	6
CALIFORNIA RESOURCES CORP	19.68	0	4	2
CALITHERA BIOSCIENCES INC	3.90	1	2	2
CAL-MAINE FOODS INC	41.72	0	9	8
CAMDEN PROPERTY TRUST	104.39	7	683	726
CAMECO CORP	10.73	3	31	32
CAMTEK LTD/ISRAEL	8.45	0	2	2
CANADIAN NATIONAL RAILWAY CO	92.75	58	4,549	5,398
CANADIAN NATURAL RESOURCES LTD	27.02	72	2,044	1,951
CANADIAN PACIFIC RAILWAY LTD	235.24	17	2,676	4,023
CANADIAN PACIFIC RAILWAY LTD	236.03	3	703	755
CANADIAN TIRE CORP LTD	109.19	0	11	11
CANADIAN UTILITIES LTD	28.28	0	13	11
CANCOM SE	53.20	5	275	272
CANOPY GROWTH CORP	40.46	49	2,211	1,967
CAPCOM CO LTD	20.07	29	698	580
CAPGEMINI SE	124.53	4	440	522
CAPITA PLC	1.34	4	5	5
CAPITAL ONE FINANCIAL CORP	90.74	16	1,403	1,488
CAPITALAND COMMERCIAL TRUST	1.60	198	286	318
CAPITALAND MALL TRUST	1.94	168	316	326
CAPRI HOLDINGS LTD	34.68	8	258	264
CARDINAL HEALTH INC	47.10	59	3,004	2,755
CARDTRONICS PLC	27.32	0	3	3
CARE.COM INC	10.98	0	2	1
CAREDX INC	35.99	0	5	7
CARGOTEC OYJ	38.01	3	186	117
CARGURUS INC	36.11	1	44	40
CARL ZEISS MEDITEC AG	98.79	0	23	42
CARLISLE COS INC	140.41	0	27	42
CARLSBERG A/S	132.77	0	1	2
CARNIVAL PLC	44.28	44	2,361	1,934
CARREFOUR SA	19.34	0	4	3
CARTER'S INC	97.54	0	27	26
CASA SYSTEMS INC	6.43	1	7	4
CASTELLUM AB	19.14	0	1	1

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
CATALENT INC	54.21	1	29	38
CATENA MEDIA PLC	6.77	0	0	0
CATERPILLAR INC	136.29	12	1,616	1,690
CAWACHI LTD	18.53	2	28	33
CBOE GLOBAL MARKETS INC	103.63	1	52	52
CBRE GROUP INC	51.30	0	13	15
CDK GLOBAL INC	49.44	1	77	64
CDW CORP/DE	111.00	30	2,718	3,342
CEDAR REALTY TRUST INC	2.65	1	2	2
CELANESE CORP	107.80	1	83	97
CELGENE CORP	92.44	22	1,803	2,035
CELLDEX THERAPEUTICS INC	2.68	0	1	1
CENTENE CORP	52.44	107	5,883	5,609
CENTERPOINT ENERGY INC	28.63	16	472	452
CENTRAL EUROPEAN MEDIA ENTERPR	4.36	0	1	1
CENTRICA PLC	1.12	1,591	2,758	1,778
CERNER CORP	73.30	4	248	293
CERUS CORP	5.62	1	3	3
CERVED GROUP SPA	8.88	1	7	7
CF INDUSTRIES HOLDINGS INC	46.71	11	460	523
CGG SA	1.88	0	0	0
CGI INC	77.05	48	3,031	3,668
CH ROBINSON WORLDWIDE INC	84.35	9	760	758
CHARLES RIVER LABORATORIES INT	141.90	0	13	21
CHARLES SCHWAB CORP/THE	40.19	0	16	16
CHARTER COMMUNICATIONS INC	395.18	2	874	969
CHARTER COURT FINANCIAL SERVIC	3.77	0	0	0
CHARTER HALL GROUP	7.60	5	34	37
CHECK POINT SOFTWARE TECHNOLOG	115.61	4	453	451
CHEMOURS CO/THE	24.00	20	560	468
CHEMRING GROUP PLC	2.35	0	0	0
CHENIERE ENERGY INC	68.45	28	1,755	1,935
CHEVRON CORP	124.44	5	666	675
CHIBA BANK LTD/THE	4.88	7	51	32
CHICO'S FAS INC	3.37	2	9	5
CHIMERIX INC	4.32	0	0	0
CHINA CONCH VENTURE HOLDINGS L	3.53	3	5	9
CHINA CONSTRUCTION BANK CORP	0.86	9	8	8
CHINA EVERGRANDE GROUP	2.80	24	64	67
CHINA HUIZHAN DAIRY HOLDINGS C	-	1,033	392	-
CHINA MERCHANTS BANK CO LTD	4.99	201	985	1,000
CHINA MINSHENG BANKING CORP LT	0.69	4	3	3
CHINA MOBILE LTD	9.11	11	97	96
CHINA PETROLEUM & CHEMICAL COR	0.68	414	316	281
CHINA RESOURCES BEER HOLDINGS	4.75	2	6	9
CHINA RESOURCES CEMENT HOLDING	0.97	60	70	58
CHINA RESOURCES PHARMACEUTICAL	1.13	13	18	14
CHINA SCE GROUP HOLDINGS LTD	0.48	44	18	21
CHIPOTLE MEXICAN GRILL INC	732.88	1	335	384

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Issuer	Price	Shares	Cost	Market Value
CHOCOLADEFABRIKEN LINDT & SPRU	7,287.18	0	630	656
CHOCOLADEFABRIKEN LINDT & SPRU	81,435.90	0	1,034	1,059
CHOICE PROPERTIES REIT	10.47	1	13	13
CHOW TAI FOOK JEWELLERY GROUP	1.09	17	17	18
CHR HANSEN HOLDING A/S	94.05	8	697	708
CHRISTIAN DIOR SE	524.99	0	3	4
CHUBB LTD	147.29	3	478	474
CHUBU ELECTRIC POWER CO INC	14.03	102	1,519	1,435
CHUGAI PHARMACEUTICAL CO LTD	65.34	35	2,191	2,294
CHURCH & DWIGHT CO INC	73.06	38	2,454	2,744
CIA DE DISTRIBUCION INTEGRAL L	22.68	1	36	32
CIE AUTOMOTIVE SA	28.99	1	42	36
CIE DE SAINT-GOBAIN	39.03	41	1,784	1,596
CIE FINANCIERE RICHEMONT SA	84.96	0	13	15
CIE GENERALE DES ETABLISSEMENT	127.03	0	1	2
CIENA CORP	41.13	4	143	169
CIGNA CORP	157.55	22	4,026	3,511
CIMIC GROUP LTD	31.42	93	2,614	2,937
CIMPRESS NV	90.89	0	25	33
CINCINNATI FINANCIAL CORP	103.67	2	190	223
CINEWORLD GROUP PLC	3.23	0	0	0
CINTAS CORP	237.29	1	330	332
CIR-COMPAGNIE INDUSTRIALI RIUN	1.07	0	0	0
CIRRUS LOGIC INC	43.70	3	143	144
CISCO SYSTEMS INC	54.73	260	10,198	14,208
CISION LTD	11.73	1	9	9
CITIGROUP INC	70.03	102	6,449	7,167
CITIZENS FINANCIAL GROUP INC	35.36	38	1,285	1,335
CITRIX SYSTEMS INC	98.14	21	1,859	2,014
CK ASSET HOLDINGS LTD	7.83	763	6,201	5,972
CK HUTCHISON HOLDINGS LTD	9.86	62	758	606
CK INFRASTRUCTURE HOLDINGS LTD	8.15	81	705	656
CLARIANT AG	20.35	17	394	348
CLARION CO LTD	23.20	3	56	58
CLEAN TEQ HOLDINGS LTD	0.27	0	0	0
CLEANAWAY WASTE MANAGEMENT LTD	1.64	11	18	19
CLINIGEN GROUP PLC	12.82	1	8	9
CLOROX CO/THE	153.11	4	705	689
CLP HOLDINGS LTD	11.03	316	3,655	3,481
CME GROUP INC	194.11	52	8,052	10,014
CMS ENERGY CORP	57.91	16	840	905
CNH INDUSTRIAL NV	10.27	21	194	214
CNOOC LTD	1.71	1	2	2
CNP ASSURANCES	22.73	43	794	977
CNX RESOURCES CORP	7.31	3	38	20
COATS GROUP PLC	1.04	0	0	0
COBHAM PLC	1.36	100	165	135
COCA-COLA AMATIL LTD	7.17	50	359	359
COCA-COLA CO/THE	50.92	83	3,937	4,206

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
COCA-COLA EUROPEAN PARTNERS PL	55.74	6	239	352
COCA-COLA EUROPEAN PARTNERS PL	56.50	56	2,619	3,163
COCA-COLA HBC AG	37.82	65	1,554	2,469
COCHLEAR LTD	145.15	2	321	346
COGECO COMMUNICATIONS INC	72.07	0	7	7
COGNIZANT TECHNOLOGY SOLUTIONS	63.39	0	24	25
COLES GROUP LTD	9.37	16	146	151
COLGATE-PALMOLIVE CO	71.67	126	8,879	9,031
COLOPL INC	6.05	7	49	42
COLOPLAST A/S	113.18	14	1,517	1,582
COLRUYT SA	58.08	11	692	643
COLUMBIA FINANCIAL INC	15.10	0	4	5
COMCAST CORP	42.28	214	8,211	9,034
COMERICA INC	72.64	28	2,275	2,063
COMFORTDELGRO CORP LTD	1.97	887	1,612	1,744
COMMERZBANK AG	7.20	44	317	319
COMMONWEALTH BANK OF AUSTRALIA	58.09	6	294	325
COMMSCOPE HOLDING CO INC	15.73	33	854	511
COMMVault SYSTEMS INC	49.62	2	110	104
COMPASS GROUP PLC	24.02	7	154	176
COMPUGROUP MEDICAL SE	80.85	1	36	50
COMPUTERSHARE LTD	11.38	26	291	295
CONCORDIA FINANCIAL GROUP LTD	3.72	7	38	25
CONDUENT INC	9.59	12	168	117
CONOCOPHILLIPS	61.00	339	21,335	20,697
CONSOL ENERGY INC	26.61	1	21	27
CONSOLIDATED EDISON INC	87.68	2	191	193
CONSTELLATION BRANDS INC	196.94	0	43	39
CONSTELLATION SOFTWARE INC	944.52	6	4,445	5,718
CONTAINER STORE GROUP INC/THE	7.32	0	1	1
CONTINENTAL AG	146.02	3	375	383
CONTINENTAL BUILDING PRODUCTS	26.57	14	301	383
CONTINENTAL RESOURCES INC/OK	42.09	11	428	463
CONVATEC GROUP PLC	1.86	0	0	0
COOPER COS INC/THE	336.89	6	1,843	2,179
COPA HOLDINGS SA	97.57	0	16	20
COPART INC	74.74	10	761	764
CORBUS PHARMACEUTICALS HOLDING	6.93	2	12	12
CORECIVIC INC	20.76	1	27	22
CORELOGIC INC/UNITED STATES	41.83	47	1,881	1,966
CORE-MARK HOLDING CO INC	39.72	0	15	16
CORNERSTONE BUILDING BRANDS IN	5.83	0	4	2
CORNERSTONE ONDEMAND INC	57.93	0	11	17
CORNING INC	33.23	3	92	103
CORPORATE OFFICE PROPERTIES TR	26.37	0	2	3
CORPORATE TRAVEL MANAGEMENT LT	15.79	0	0	0
CORVEL CORP	87.01	0	9	9
COSCO SHIPPING DEVELOPMENT CO	0.13	126	29	16
COSMO ENERGY HOLDINGS CO LTD	22.53	9	200	196

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Issuer	Price	Shares	Cost	Market Value
COSTA GROUP HOLDINGS LTD	2.84	13	45	36
COSTAR GROUP INC	554.06	3	1,699	1,694
COSTCO WHOLESALE CORP	264.26	42	9,129	11,066
COTT CORP	13.35	1	17	15
COUNTRYWIDE PLC	0.05	0	0	0
COUPA SOFTWARE INC	126.61	0	6	13
COVETRUS INC	24.46	0	9	5
COVIVIO	102.95	0	10	12
COVIVIO	104.83	0	2	2
CRAMO OYJ	23.78	0	2	2
CRANE CO	83.44	0	6	6
CREDIT AGRICOLE SA	12.01	0	2	2
CREDIT SUISSE GROUP AG	12.01	31	371	376
CREDITO VALTELLINESE SPA	0.06	1	0	0
CREE INC	56.18	1	43	67
CRESCENT POINT ENERGY CORP	3.31	3	8	8
CREST NICHOLSON HOLDINGS PLC	4.54	2	19	10
CRH PLC	32.61	13	438	431
CRH PLC	32.75	0	3	3
CRITEO SA	17.21	2	32	26
CROCS INC	19.75	9	192	168
CRODA INTERNATIONAL PLC	65.16	12	781	771
CRONOS GROUP INC	15.97	2	35	37
CRONOS GROUP INC	16.08	62	945	996
CROWN CASTLE INTERNATIONAL COR	130.35	14	1,349	1,805
CROWN HOLDINGS INC	61.10	15	909	942
CROWN RESORTS LTD	8.74	0	2	2
CSL LTD	150.88	48	6,575	7,251
CSPC PHARMACEUTICAL GROUP LTD	1.61	2	3	3
CSX CORP	77.37	114	7,849	8,817
CUBESMART	33.44	0	13	13
CUMMINS INC	171.34	30	4,801	5,177
CURTISS-WRIGHT CORP	127.13	0	13	13
CUSHMAN & WAKEFIELD PLC	17.88	1	12	13
CUTERA INC	20.78	0	2	2
CVB FINANCIAL CORP	21.03	0	2	2
CVS HEALTH CORP	54.49	59	3,320	3,213
CYBG PLC	2.45	0	0	0
CYMABAY THERAPEUTICS INC	7.16	2	16	17
CYPRESS SEMICONDUCTOR CORP	22.24	0	2	2
DAH SING FINANCIAL HOLDINGS LT	4.67	2	17	11
DAI NIPPON PRINTING CO LTD	21.31	33	755	699
DAICEL CORP	8.89	1	15	12
DAIFUKU CO LTD	56.15	10	512	567
DAI-ICHI LIFE HOLDINGS INC	15.08	131	2,347	1,977
DAIICHI SANKYO CO LTD	52.30	58	2,115	3,034
DAI-ICHI SEIKO CO LTD	11.57	1	10	9
DAIKYONISHIKAWA CORP	7.94	12	147	94
DAILY MAIL & GENERAL TRUST PLC	9.94	5	47	51

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
DAILY MSCI USA INDX NL FUND	41.09	18,280	436,067	751,103
DAIMLER AG	55.72	6	340	344
DAIRY FARM INTERNATIONAL HOLDI	7.15	38	351	274
DAITO TRUST CONSTRUCTION CO LT	127.48	4	595	497
DAIWA SECURITIES GROUP INC	4.38	21	117	93
DAKTRONICS INC	6.17	0	2	2
DALI FOODS GROUP CO LTD	0.66	47	28	31
DANA INC	19.94	2	42	42
DANAHER CORP	142.92	9	1,054	1,218
DANONE SA	84.84	1	75	90
DANSKE BANK A/S	15.83	19	646	299
DART GROUP PLC	10.63	13	94	137
DASSAULT SYSTEMES SE	159.77	15	1,962	2,395
DAVIDE CAMPARI-MILANO SPA	9.81	99	906	970
DAVITA INC	56.26	1	52	45
DBS GROUP HOLDINGS LTD	19.19	113	2,186	2,170
DE' LONGHI SPA	20.25	0	0	0
DEBENHAMS PLC	-	39	40	-
DECKERS OUTDOOR CORP	175.97	0	7	18
DEERE & CO	165.71	8	1,175	1,307
DELL TECHNOLOGIES INC	50.80	24	1,327	1,220
DELPHI TECHNOLOGIES PLC	20.00	10	321	190
DELTA AIR LINES INC	56.75	96	5,187	5,457
DENALI THERAPEUTICS INC	20.76	0	2	2
DENTSPLY SIRONA INC	58.36	10	504	592
DERWENT LONDON PLC	39.66	0	2	2
DESIGNER BRANDS INC	19.17	10	226	192
DETOUR GOLD CORP	12.64	1	7	8
DEUTSCHE BANK AG	7.72	60	455	462
DEUTSCHE BOERSE AG	141.67	0	4	4
DEUTSCHE LUFTHANSA AG	17.16	0	3	2
DEUTSCHE POST AG	32.91	0	5	6
DEUTSCHE TELEKOM AG	17.32	87	1,463	1,512
DEUTSCHE WOHNEN SE	36.75	91	4,160	3,351
DEVON ENERGY CORP	28.52	1	15	14
DEXCOM INC	149.84	10	1,374	1,488
DEXERIALS CORP	6.44	2	11	12
DEXUS	9.11	167	1,473	1,519
DFDS A/S	42.48	0	2	2
DHI GROUP INC	3.57	0	1	1
DIAGEO PLC	43.07	249	8,084	10,741
DIASORIN SPA	116.27	2	153	228
DIC ASSET AG	11.55	1	13	17
DICK'S SPORTING GOODS INC	34.63	27	914	928
D'IETEREN SA/NV	46.01	1	62	64
DIGITAL ARTS INC	88.18	1	47	44
DIGITAL REALTY TRUST INC	117.79	6	530	700
DIP CORP	16.73	12	180	206
DIRECT LINE INSURANCE GROUP PL	4.22	208	923	878

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Issuer	Price	Shares	Cost	Market Value
DISCOVER FINANCIAL SERVICES	77.59	29	2,165	2,214
DISCOVERY INC	28.45	45	1,224	1,282
DISCOVERY INC	30.70	29	853	892
DISH NETWORK CORP	38.41	10	382	397
DISTRIBUIDORA INTERNACIONAL DE	0.60	0	0	0
DIXONS CARPHONE PLC	1.39	104	688	146
DKSH HOLDING AG	58.67	0	28	21
DMG MORI AG	49.65	0	3	4
DNB ASA	18.61	93	1,643	1,737
DNO ASA	1.81	0	0	0
DOCUSIGN INC	49.71	2	86	80
DOLBY LABORATORIES INC	64.60	1	62	65
DOLLAR GENERAL CORP	135.16	43	4,411	5,772
DOLLAR TREE INC	107.39	14	1,325	1,475
DOLLARAMA INC	35.26	0	2	4
DOLPHIN DRILLING ASA	0.12	0	0	0
DOMINION ENERGY INC	77.32	5	392	396
DOMINO'S PIZZA ENTERPRISES LTD	26.41	1	22	18
DOMINO'S PIZZA GROUP PLC	3.54	1	6	5
DOMINO'S PIZZA INC	278.28	6	1,521	1,533
DOUGLAS EMMETT INC	39.84	0	12	12
DOVER CORP	100.20	0	39	40
DOW INC	49.31	0	6	5
DRAEGERWERK AG & CO KGAA	63.09	1	59	35
DRAX GROUP PLC	3.31	0	0	0
DREAM OFFICE REIT	18.09	1	13	14
DROPBOX INC	25.05	108	2,485	2,705
DS SMITH PLC	4.61	0	2	1
DTE ENERGY CO	127.88	3	402	434
DUKE ENERGY CORP	88.24	35	3,010	3,057
DUKE REALTY CORP	31.61	1	21	22
DULUXGROUP LTD	6.54	12	69	78
DUPONT DE NEMOURS INC	75.07	14	1,026	1,041
DXC TECHNOLOGY CO	55.15	82	5,478	4,511
DYNAVAX TECHNOLOGIES CORP	3.99	17	313	67
E*TRADE FINANCIAL CORP	44.60	59	3,048	2,649
E.ON SE	10.88	875	9,626	9,515
EAGLE PHARMACEUTICALS INC/DE	55.68	0	14	17
EAST WEST BANCORP INC	46.77	18	648	823
EASYJET PLC	12.13	0	3	2
EATON CORP PLC	83.28	68	5,530	5,645
EBAY INC	39.50	62	2,047	2,446
ECHOSTAR CORP	44.32	2	79	75
ECLIPX GROUP LTD	0.92	2	1	2
ECOLAB INC	197.44	5	987	1,070
ECONOCOM GROUP SA/NV	3.58	1	3	3
EDENRED	51.09	13	549	687
EDION CORP	9.29	2	15	14
EDITAS MEDICINE INC	24.74	4	128	106

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
EDP - ENERGIAS DE PORTUGAL SA	3.81	0	0	0
EDWARDS LIFESCIENCES CORP	184.74	7	1,019	1,314
EI GROUP PLC	2.50	0	0	0
EIFFAGE SA	99.01	10	1,069	995
EISAI CO LTD	56.53	27	1,748	1,498
ELANCO ANIMAL HEALTH INC	33.80	25	552	852
ELBIT SYSTEMS LTD	148.88	2	285	310
ELECTRICITE DE FRANCE SA	12.62	438	6,505	5,535
ELECTROCOMPONENTS PLC	8.05	15	116	123
ELECTRONIC ARTS INC	101.26	31	2,978	3,162
ELEKTA AB	14.52	0	3	3
ELEMENT FLEET MANAGEMENT CORP	7.32	1	10	10
ELEMENTIS PLC	1.80	10	32	18
ELI LILLY & CO	110.79	145	16,852	16,022
ELIS SA	18.16	0	3	2
EMERA INC	40.95	0	3	4
EMERALD EXPOSITIONS EVENTS INC	11.15	0	1	1
EMERSON ELECTRIC CO	66.72	48	3,413	3,220
EMMI AG	936.41	0	21	36
EMPIRE CO LTD	25.24	56	1,087	1,417
EMS-CHEMIE HOLDING AG	649.74	0	35	34
ENAGAS SA	26.73	40	1,139	1,064
ENBRIDGE INC	36.08	0	4	4
ENBRIDGE INC	36.20	61	2,109	2,190
ENCANA CORP	5.13	1	3	3
ENCE ENERGIA Y CELULOSA SA	4.52	0	0	0
ENCOMPASS HEALTH CORP	63.36	0	19	19
ENDESA SA	25.75	204	4,967	5,246
ENDO INTERNATIONAL PLC	4.12	7	78	28
ENDURANCE INTERNATIONAL GROUP	4.80	0	0	0
ENEL SPA	6.99	1,482	8,845	10,365
ENERPLUS CORP	7.54	0	2	2
ENGIE SA	15.19	263	4,436	3,995
ENI SPA	16.63	413	7,420	6,869
ENPHASE ENERGY INC	18.23	2	40	42
ENPLAS CORP	29.70	1	13	15
ENQUEST PLC	0.25	0	0	0
ENERGY CORP	102.93	12	1,131	1,283
ENTRAVISION COMMUNICATIONS COR	3.12	0	1	1
EOG RESOURCES INC	93.16	16	1,489	1,536
EPAM SYSTEMS INC	173.10	4	637	629
EQUINIX INC	504.29	1	382	688
EQUINOR ASA	19.76	234	4,960	4,619
EQUINOR ASA	19.78	11	207	212
EQUITRANS MIDSTREAM CORP	19.71	11	236	223
EQUITY COMMONWEALTH	32.52	35	1,046	1,145
EQUITY LIFESTYLE PROPERTIES IN	121.34	19	1,207	2,342
EQUITY RESIDENTIAL	75.92	14	1,026	1,045
EROS INTERNATIONAL PLC	1.35	1	2	1

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Issuer	Price	Shares	Cost	Market Value
ESPRINET SPA	3.65	0	1	1
ESSENT GROUP LTD	46.99	0	3	5
ESSENTIAL PROPERTIES REALTY TR	20.04	0	2	2
ESSENTRA PLC	5.46	0	0	0
ESSEX PROPERTY TRUST INC	291.93	3	650	755
ESSILORLUXOTTICA SA	130.68	13	1,708	1,674
ESTEE LAUDER COS INC/THE	183.11	7	1,261	1,264
ETABLISSEMENTS MAUREL ET PROM	3.31	0	0	0
ETSY INC	61.37	6	370	387
EURAZEO SE	69.81	0	2	2
EUROMONEY INSTITUTIONAL INVEST	16.57	2	32	32
EURONET WORLDWIDE INC	168.24	0	8	17
EUTELSAT COMMUNICATIONS SA	18.72	34	691	632
EVENTBRITE INC	16.20	0	3	3
EVERGY INC	60.15	12	679	746
EVERSOURCE ENERGY	75.76	8	600	641
EVOLUTION GAMING GROUP AB	19.81	1	24	24
EVOLUTION MINING LTD	3.06	69	142	212
EVONIK INDUSTRIES AG	29.16	0	7	6
EVRAZ PLC	8.47	350	1,279	2,959
EXANTAS CAPITAL CORP	11.31	0	2	2
EXELIXIS INC	21.37	2	35	36
EXELON CORP	47.94	349	16,479	16,729
EXPEDIA GROUP INC	133.03	23	2,831	3,060
EXPEDITORS INTERNATIONAL OF WA	75.86	5	331	341
EXPERIAN PLC	30.34	34	864	1,044
EXPRESS INC	2.73	26	286	71
EXTENDED STAY AMERICA INC	16.89	2	33	32
EXTRA SPACE STORAGE INC	106.10	10	1,081	1,081
EXTREME NETWORKS INC	6.47	4	26	27
EXXON MOBIL CORP	76.63	11	821	824
F5 NETWORKS INC	145.63	30	4,049	4,418
FABEGE AB	15.06	0	4	5
FACEBOOK INC	193.00	127	19,901	24,419
FAGRON	20.32	0	5	7
FAIRFAX FINANCIAL HOLDINGS LTD	491.88	0	98	98
FAMILYMART CO LTD	23.87	55	1,404	1,308
FAST RETAILING CO LTD	604.51	5	2,424	3,204
FASTENAL CO	32.59	27	823	889
FASTIGHETS AB BALDER	33.52	1	38	47
FAURECIA SE	46.47	7	546	348
FEDERAL REALTY INVESTMENT TRUS	128.76	2	304	286
FEED ONE CO LTD	1.73	8	21	14
FERGUSON PLC	71.27	3	262	236
FERREXPO PLC	3.53	0	0	0
FERROVIAL SA	25.63	26	622	671
FEVERTREE DRINKS PLC	29.50	0	0	1
FGL HOLDINGS	8.40	0	3	3
FIAT CHRYSLER AUTOMOBILES NV	13.82	26	386	362

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
FIBROGEN INC	45.18	0	4	5
FIDELITY NATIONAL FINANCIAL IN	40.30	72	2,293	2,897
FIDELITY NATIONAL INFORMATION	122.68	59	4,996	7,189
FIELMANN AG	72.66	2	161	139
FINCANTIERI SPA	1.12	0	0	0
FINECOBANK BANCA FINECO SPA	11.17	0	2	3
FINNING INTERNATIONAL INC	18.27	24	575	431
FIREEYE INC	14.81	1	12	12
FIRST AMERICAN FINANCIAL CORP	53.70	1	40	43
FIRST BANCORP/PUERTO RICO	11.04	2	16	22
FIRST COMMONWEALTH FINANCIAL C	13.47	0	1	1
FIRST DATA CORP	27.07	36	844	966
FIRST DEFIANCE FINANCIAL CORP	28.57	0	5	6
FIRST HAWAIIAN INC	25.87	15	412	393
FIRST SOLAR INC	65.68	5	234	348
FIRSTENERGY CORP	42.81	46	1,829	1,967
FIRSTGROUP PLC	1.24	0	0	0
FISCO LTD	1.92	3	7	5
FISERV INC	91.16	8	721	770
FITBIT INC	4.40	21	122	92
FIVE PRIME THERAPEUTICS INC	6.03	1	6	6
FLAGSTAR BANCORP INC	33.14	0	6	7
FLEX LTD	9.57	127	1,628	1,215
FLEXIGROUP LTD/AUSTRALIA	1.14	1	1	1
FLIGHT CENTRE TRAVEL GROUP LTD	29.16	5	177	142
FLIR SYSTEMS INC	54.10	10	432	530
FLOWERS FOODS INC	23.27	1	21	21
FLSMIDTH & CO A/S	45.30	0	2	1
FLUGHAFEN ZURICH AG	188.51	0	1	1
FLUTTER ENTERTAINMENT PLC	75.45	1	214	107
FMC CORP	82.95	5	417	416
FOOT LOCKER INC	41.92	16	663	658
FORTESCUE METALS GROUP LTD	6.33	72	380	453
FORTINET INC	76.83	87	5,726	6,682
FORTIS INC	39.57	6	209	226
FORTIS INC/CANADA	39.47	0	15	16
FORTIVE CORP	81.52	0	25	33
FORTRESS BIOTECH INC	1.50	1	1	1
FORTUM OYJ	22.13	96	2,105	2,123
FORTUNE BRANDS HOME & SECURITY	57.13	2	114	109
FOSSIL GROUP INC	11.50	24	463	274
FOSTER ELECTRIC CO LTD	14.39	4	49	56
FOSUN INTERNATIONAL LTD	1.33	21	27	27
FOUNDATION BUILDING MATERIALS	17.78	0	2	2
FOX CORP	36.53	16	643	591
FOX CORP	36.64	13	519	483
FRAPORT AG FRANKFURT AIRPORT S	86.09	16	1,258	1,341
FREEMPORT-MCMORAN INC	11.61	27	314	315
FRESENIUS SE & CO KGAA	54.30	3	166	170

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Issuer	Price	Shares	Cost	Market Value
FRESNILLO PLC	11.08	28	357	307
FRONTDOOR INC	43.55	0	5	9
FRONTERA ENERGY CORP	10.36	0	1	1
FS KKR CAPITAL CORP	5.96	4	25	25
FTI CONSULTING INC	83.84	0	4	8
FTS INTERNATIONAL INC	5.58	0	1	1
FU SHOU YUAN INTERNATIONAL GRO	0.88	35	24	31
FUJI CORP/AICHI	12.72	1	12	9
FUJI ELECTRIC CO LTD	34.48	32	1,090	1,114
FUJI MEDIA HOLDINGS INC	13.94	13	218	183
FUJIFILM HOLDINGS CORP	50.71	15	686	745
FUJITSU LTD	69.72	49	3,320	3,409
FUKUOKA FINANCIAL GROUP INC	18.26	3	59	46
FUTABA INDUSTRIAL CO LTD	5.47	4	36	22
G4S PLC	2.65	110	308	291
G8 EDUCATION LTD	2.13	6	15	12
GALAXY RESOURCES LTD	0.86	0	0	0
GALP ENERGIA SGPS SA	15.40	26	397	399
GAM HOLDING AG	4.63	1	6	6
GAMESTOP CORP	5.47	18	171	101
GAP INC/THE	17.97	0	3	2
GARDNER DENVER HOLDINGS INC	34.60	3	92	107
GARMIN LTD	79.80	12	932	925
GARTNER INC	160.94	9	1,171	1,379
GCI LIBERTY INC	61.46	5	185	301
GENERAL DYNAMICS CORP	181.82	18	2,938	3,197
GENERAL MILLS INC	52.52	1	26	26
GENERAL MOTORS CO	38.53	8	298	300
GENPACT LTD	38.09	6	150	221
GENTEX CORP	24.61	4	87	96
GENTING SINGAPORE LTD	0.68	715	583	486
GENUINE PARTS CO	103.58	1	59	62
GENUS PLC	33.70	1	15	21
GEO HOLDINGS CORP	12.81	15	238	192
GEOARK LTD	18.54	0	2	2
GEOX SPA	1.45	0	0	0
GETINGE AB	15.77	2	26	26
GETLINK SE	16.05	0	1	2
GIBRALTAR INDUSTRIES INC	40.36	0	3	4
GILDAN ACTIVEWEAR INC	38.78	9	310	335
GILEAD SCIENCES INC	67.56	157	11,299	10,620
GIVAUDAN SA	2,826.67	3	5,647	7,397
GJENSIDIGE FORSIKRING ASA	20.15	38	614	757
GLAXOSMITHKLINE PLC	20.07	292	5,757	5,851
GLOBAL BLOOD THERAPEUTICS INC	52.60	1	29	26
GLOBAL DOMINION ACCESS SA	5.13	3	16	15
GLU MOBILE INC	7.18	1	7	6
GMO CLOUD KK	28.08	3	95	87
GOCO GROUP PLC	1.19	0	0	0

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
GODADDY INC	70.15	44	3,266	3,090
GOLDCREST CO LTD	17.62	2	34	33
GOLDEN AGRI-RESOURCES LTD	0.21	124	29	27
GOLDMAN SACHS GROUP INC/THE	204.60	2	342	352
GOODMAN GROUP	10.55	320	2,455	3,371
GOODYEAR TIRE & RUBBER CO/THE	15.30	23	406	355
GOPRO INC	5.46	17	118	95
GPT GROUP/THE	4.32	160	681	690
GRAINCORP LTD	5.59	3	17	15
GRAINGER PLC	3.13	0	0	0
GRAND CITY PROPERTIES SA	22.89	2	35	42
GRAPHIC PACKAGING HOLDING CO	13.98	4	50	53
GREAT CANADIAN GAMING CORP	33.98	1	16	17
GREAT LAKES DREDGE & DOCK CORP	11.04	1	13	13
GREAT PORTLAND ESTATES PLC	8.71	0	1	1
GREAT WEST LIFECO INC	23.07	37	942	851
GREAT WESTERN BANCORP INC	35.72	1	27	32
GREE INC	4.65	39	279	180
GREEN DOT CORP	48.90	3	135	142
GREEN ORGANIC DUTCHMAN HLDGS	-	1	-	-
GREENCORE GROUP PLC	2.79	6	15	16
GREENSKY INC	12.29	8	76	95
GREGGS PLC	29.25	3	41	82
GRIFOLS SA	29.61	6	147	167
GROUPON INC	3.58	72	373	259
GRUBHUB INC	77.99	0	13	8
GUANGDONG INVESTMENT LTD	1.98	74	142	146
GULF KEYSTONE PETROLEUM LTD	2.87	3	27	9
GUNGHO ONLINE ENTERTAINMENT IN	27.66	18	467	510
GUNOSY INC	16.78	2	27	30
GURUNAVI INC	6.18	16	137	99
GVC HOLDINGS PLC	8.30	1	9	6
GW PHARMACEUTICALS PLC	-	0	0	-
GW PHARMACEUTICALS PLC	172.39	0	0	18
H LUNDBECK A/S	39.56	29	1,630	1,163
H&R BLOCK INC	29.30	98	2,464	2,886
H&R REIT	17.48	42	702	733
HACHIJUNI BANK LTD/THE	4.07	4	24	15
HAEMONETICS CORP	120.34	0	9	12
HALFORDS GROUP PLC	2.86	2	14	6
HALLIBURTON CO	22.74	25	667	559
HALMA PLC	25.71	5	127	140
HALOZYME THERAPEUTICS INC	17.18	1	11	10
HAMBORNER REIT AG	10.26	6	63	60
HAMBURGER HAFEN UND LOGISTIK A	26.47	3	92	86
HAMMERSON PLC	3.53	0	5	2
HANNOVER RUECK SE	161.94	5	742	813
HANSTEEN HOLDINGS PLC	1.24	0	0	0
HAPAG-LLOYD AG	43.84	0	2	2

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Issuer	Price	Shares	Cost	Market Value
HAPPINET CORP	12.26	1	14	10
HARGREAVES LANSDOWN PLC	24.42	31	763	756
HARTFORD FINANCIAL SERVICES GR	55.72	72	3,483	3,990
HASEKO CORP	10.12	76	841	770
HAWAIIAN ELECTRIC INDUSTRIES I	43.55	1	39	39
HAYS PLC	2.00	0	0	0
HCA HEALTHCARE INC	135.17	65	8,628	8,770
HCP INC	31.98	141	4,037	4,494
HD SUPPLY HOLDINGS INC	40.28	105	3,935	4,210
HEALTH & HAPPINESS H&H INTERNA	5.68	9	24	51
HEALTHCARE TRUST OF AMERICA IN	27.43	2	55	58
HEIDELBERGCEMENT AG	81.04	13	1,049	1,091
HEIDELBERGER DRUCKMASCHINEN AG	1.61	0	0	0
HEIDRICK & STRUGGLES INTERNATI	29.97	0	3	3
HEIWA REAL ESTATE CO LTD	20.43	16	200	329
HELVETIA HOLDING AG	125.64	0	2	3
HEMISPHERE MEDIA GROUP INC	12.92	0	0	0
HENDERSON LAND DEVELOPMENT CO	5.51	284	1,488	1,567
HENGAN INTERNATIONAL GROUP CO	7.35	11	102	77
HENKEL AG & CO KGAA	97.96	5	516	503
HENRY SCHEIN INC	69.90	25	1,569	1,762
HERA SPA	3.83	29	93	110
HERBALIFE NUTRITION LTD	42.76	0	17	13
HERITAGE INSURANCE HOLDINGS IN	15.41	0	5	5
HERMES INTERNATIONAL	722.23	5	3,602	3,860
HERON THERAPEUTICS INC	18.59	0	7	4
HESS CORP	63.57	27	1,665	1,703
HEXAGON AB	55.57	4	213	229
HEXCEL CORP	80.88	0	4	5
HIBBETT SPORTS INC	18.20	1	10	9
HIGHWOODS PROPERTIES INC	41.30	0	5	4
HIKMA PHARMACEUTICALS PLC	21.92	2	54	48
HILL-ROM HOLDINGS INC	104.62	0	5	10
HILTON GRAND VACATIONS INC	31.82	2	81	73
HILTON WORLDWIDE HOLDINGS INC	97.74	0	8	10
HIS CO LTD	24.88	1	23	17
HISCOX LTD	21.53	2	30	33
HK ELECTRIC INVESTMENTS & HK E	1.02	120	106	122
HKT TRUST & HKT LTD	1.59	1,222	1,685	1,940
HMS HOLDINGS CORP	32.39	1	19	39
HOCHSCHILD MINING PLC	2.44	4	11	9
HOCHTIEF AG	121.97	18	2,576	2,160
HOKKAIDO ELECTRIC POWER CO INC	5.60	7	51	37
HOKURIKU ELECTRIC POWER CO	7.25	1	13	10
HOLLYFRONTIER CORP	46.28	57	3,361	2,618
HOLLYSYS AUTOMATION TECHNOLOGI	19.00	1	15	13
HOLMEN AB	21.35	3	70	71
HOLOGIC INC	48.02	18	768	867
HOME DEPOT INC/THE	207.97	70	12,411	14,614

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
HONDA MOTOR CO LTD	25.84	1	15	13
HONEYWELL INTERNATIONAL INC	174.59	135	19,402	23,510
HONG KONG & CHINA GAS CO LTD	2.22	838	1,680	1,858
HONG KONG EXCHANGES & CLEARING	35.30	90	2,878	3,181
HONGKONG LAND HOLDINGS LTD	6.44	10	68	61
HORIZON THERAPEUTICS PLC	24.06	42	902	1,013
HORMEL FOODS CORP	40.54	50	2,116	2,008
HOSIDEN CORP	11.09	2	21	23
HOST HOTELS & RESORTS INC	18.22	27	521	487
HOWDEN JOINERY GROUP PLC	6.45	16	94	102
HOYA CORP	76.61	55	3,243	4,175
HP INC	20.79	524	10,485	10,899
HSBC HOLDINGS PLC	8.36	1,250	10,531	10,448
HT&E LTD	1.24	0	0	0
HUDSON LTD	13.79	0	1	1
HUGO BOSS AG	66.62	2	141	109
HULIC CO LTD	8.04	1	10	9
HUMANA INC	265.30	34	8,699	8,889
HUNTINGTON INGALLS INDUSTRIES	224.74	9	1,833	2,022
HUNTSMAN CORP	20.44	23	661	478
HUSKY ENERGY INC	9.50	167	2,080	1,589
HUTCHISON PORT HOLDINGS TRUST	0.23	107	63	24
HYATT HOTELS CORP	76.13	6	416	426
HYDRO ONE LIMITED	17.48	2	35	35
IAA INC	38.78	58	1,452	2,265
IAC/INTERACTIVECORP	217.53	27	4,801	5,955
IBERDROLA SA	9.98	690	5,660	6,884
IBIDEN CO LTD	17.51	15	221	263
IBSTOCK PLC	3.09	0	0	0
ICA GRUPPEN AB	43.03	15	561	659
ICON PLC	153.97	0	61	62
IDEX CORP	172.14	0	8	17
IDEXX LABORATORIES INC	275.33	4	1,208	1,236
IDP EDUCATION LTD	12.39	1	10	15
IG GROUP HOLDINGS PLC	7.44	14	147	105
IHI CORP	24.10	40	983	974
IIDA GROUP HOLDINGS CO LTD	16.15	56	969	898
ILIAD SA	112.47	3	344	336
ILLUMINA INC	368.15	3	922	1,058
ILUKA RESOURCES LTD	7.56	3	24	22
IMA INDUSTRIA MACCHINE AUTOMAT	82.96	0	2	3
IMPERIAL BRANDS PLC	23.50	0	1	0
IMPERIAL OIL LTD	27.75	29	832	791
INCHCAPE PLC	7.84	16	155	128
INCITEC PIVOT LTD	2.39	14	41	33
INCYTE CORP	84.96	25	1,950	2,118
INDEPENDENT BANK CORP/MI	21.79	0	9	9
INDIVIOR PLC	0.54	99	290	54
INDRA SISTEMAS SA	10.12	17	205	174

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Issuer	Price	Shares	Cost	Market Value
INDUSTRIA DE DISENO TEXTIL SA	30.12	57	1,579	1,713
INDUSTRIAL & COMMERCIAL BANK O	0.73	1,232	921	899
INFINEON TECHNOLOGIES AG	17.71	35	628	619
INFRASTRUTTURE WIRELESS ITALIA	9.83	1	6	12
ING GROEP NV	11.61	241	3,251	2,798
INGENICO GROUP SA	88.58	2	128	180
INGERSOLL-RAND PLC	126.67	30	3,144	3,757
INGREDION INC	82.49	0	10	8
INMOBILIARIA COLONIAL SOCIMI S	11.15	1	4	6
INNERGEX RENEWABLE ENERGY INC	10.67	1	10	10
INNOGY SE	47.49	27	1,245	1,301
INNOVIVA INC	14.56	0	4	3
INSMED INC	25.60	3	70	72
INSPERITY INC	122.14	1	37	110
INSURANCE AUSTRALIA GROUP LTD	5.80	1	5	5
INTACT FINANCIAL CORP	92.61	13	890	1,213
INTEL CORP	47.87	220	10,630	10,545
INTER PIPELINE LTD	15.59	0	2	2
INTERACTIVE BROKERS GROUP INC	54.20	0	4	5
INTERCEPT PHARMACEUTICALS INC	79.57	0	7	8
INTERCONTINENTAL EXCHANGE INC	85.94	106	6,394	9,110
INTERCONTINENTAL HOTELS GROUP	65.82	4	225	250
INTERDIGITAL INC	64.40	2	148	155
INTERNATIONAL BUSINESS MACHINE	137.90	53	7,690	7,376
INTERNATIONAL CONSOLIDATED AIR	6.05	275	2,308	1,662
INTERNATIONAL FLAVORS & FRAGRA	145.09	0	14	15
INTERNATIONAL PETROLEUM CORP/S	4.44	16	41	71
INTERNET INITIATIVE JAPAN INC	18.75	11	208	204
INTERTEK GROUP PLC	70.02	0	13	13
INTERXION HOLDING NV	76.09	3	118	236
INTESA SANPAOLO SPA	2.14	807	2,507	1,729
INTREPID POTASH INC	3.36	0	0	0
INTU PROPERTIES PLC	0.97	29	43	28
INTUIT INC	261.33	45	9,427	11,840
INTUITIVE SURGICAL INC	524.55	15	5,391	7,845
INVESCO LTD	20.46	19	386	389
INVESTEC PLC	6.50	82	584	530
INVESTOR AB	48.08	69	3,084	3,300
INVESTORS BANCORP INC	11.15	5	55	57
IONIS PHARMACEUTICALS INC	64.27	2	82	103
IP GROUP PLC	0.95	0	0	0
IPH LTD	5.24	4	19	20
IQE PLC	0.77	0	0	0
IQVIA HOLDINGS INC	160.90	18	2,406	2,845
IREN SPA	2.60	7	18	18
IROBOT CORP	91.64	0	36	37
IRON MOUNTAIN INC	31.30	0	7	6
IRONWOOD PHARMACEUTICALS INC	10.94	0	1	1
ISETAN MITSUKOSHI HOLDINGS LTD	8.11	1	10	7

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ISHIHARA SANGYO KAISHA LTD	11.69	9	158	100
ISRAEL CHEMICALS LTD	5.24	106	624	556
ITALGAS SPA	6.73	35	199	232
ITOCHU CORP	19.12	122	1,926	2,331
ITOCHU TECHNO-SOLUTIONS CORP	25.64	1	22	23
ITV PLC	1.37	1	2	1
IVERIC BIO INC	1.30	4	19	5
IWG PLC	4.33	7	33	29
J SAINSBURY PLC	2.49	198	482	494
J. JILL INC	1.99	0	1	1
J2 GLOBAL INC	88.89	1	70	71
JACK HENRY & ASSOCIATES INC	133.92	10	1,307	1,294
JACOBS ENGINEERING GROUP INC	84.39	0	6	8
JAMES HARDIE INDUSTRIES PLC	13.12	11	175	147
JANUS HENDERSON GROUP PLC	21.26	1	49	28
JAPAN AIRLINES CO LTD	31.96	118	4,180	3,784
JAPAN AVIATION ELECTRONICS IND	14.67	6	72	82
JAPAN EXCHANGE GROUP INC	15.89	29	518	466
JAPAN LOGISTICS FUND INC	2,289.77	0	12	14
JAPAN POST HOLDINGS CO LTD	11.32	337	3,991	3,819
JAPAN PRIME REALTY INVESTMENT	4,334.51	0	607	702
JAPAN REAL ESTATE INVESTMENT C	6,088.73	0	978	1,084
JAPAN RETAIL FUND INVESTMENT C	2,023.39	0	311	326
JAPAN TOBACCO INC	22.09	3	65	62
JAPARA HEALTHCARE LTD	0.79	0	0	0
JARDINE MATHESON HOLDINGS LTD	63.02	0	6	6
JARDINE STRATEGIC HOLDINGS LTD	38.13	3	103	99
JAZZ PHARMACEUTICALS PLC	142.56	7	988	1,068
JEFFERIES FINANCIAL GROUP INC	19.23	27	512	511
JERONIMO MARTINS SGPS SA	16.13	0	3	2
JFE HOLDINGS INC	14.69	12	246	181
JM SMUCKER CO/THE	115.19	0	12	12
JOHN WILEY & SONS INC	45.86	0	5	5
JOHNSON & JOHNSON	139.28	219	28,408	30,501
JOHNSON CONTROLS INTERNATIONAL	41.31	6	226	231
JOUNCE THERAPEUTICS INC	4.95	0	1	1
JPJ GROUP PLC	9.42	1	11	9
JPMORGAN CHASE & CO	111.80	64	6,558	7,120
JTEKT CORP	12.12	25	268	302
JUKI CORP	9.22	33	329	305
JULIUS BAER GROUP LTD	44.57	19	1,076	833
JUNIPER NETWORKS INC	26.63	130	3,513	3,453
JUPITER FUND MANAGEMENT PLC	5.38	3	19	16
JUST EAT PLC	7.95	34	361	273
JUST GROUP PLC	0.72	0	0	0
JXTG HOLDINGS INC	4.96	352	1,716	1,744
JYSKE BANK A/S	34.71	4	213	130
K12 INC	30.41	0	2	3
KABU.COM SECURITIES CO LTD	5.18	7	36	36

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Issuer	Price	Shares	Cost	Market Value
KADOKAWA CORP	13.53	3	31	37
KAJIMA CORP	13.72	140	2,030	1,923
KAMAN CORP	63.69	0	4	6
KAMIGUMI CO LTD	23.67	82	1,660	1,936
KANAMOTO CO LTD	25.86	42	961	1,091
KANDENKO CO LTD	8.35	1	12	12
KANSAI ELECTRIC POWER CO INC/T	11.46	150	2,249	1,720
KANSAS CITY SOUTHERN	121.82	0	27	37
KAR AUCTION SERVICES INC	25.00	56	847	1,410
KAROON ENERGY LTD	0.67	0	0	0
KARYOPHARM THERAPEUTICS INC	5.99	2	9	11
KBC GROUP NV	65.64	1	68	67
KEANE GROUP INC	6.72	1	4	4
KEARNY FINANCIAL CORP/MD	13.29	0	5	5
KEIHAN HOLDINGS CO LTD	43.58	16	629	697
KEIO CORP	65.81	18	986	1,185
KEMIRA OYJ	14.74	4	46	66
KENEDIX INC	4.98	0	2	1
KEPPEL CORP LTD	4.92	1	5	4
KERING SA	592.29	10	5,284	6,178
KERRY GROUP PLC	119.57	4	393	452
KERRY PROPERTIES LTD	4.20	536	1,834	2,250
KEYENCE CORP	613.79	1	415	430
KEYSIGHT TECHNOLOGIES INC	89.81	35	2,666	3,107
KIER GROUP PLC	1.35	0	0	0
KIKKOMAN CORP	43.53	25	1,209	1,097
KIMBERLY-CLARK CORP	133.28	9	1,143	1,173
KIMCO REALTY CORP	18.48	0	2	2
KINDER MORGAN INC/DE	20.88	216	4,066	4,503
KINGFISHER PLC	2.74	1	3	2
KINGSOFT CORP LTD	2.16	5	11	11
KINTETSU GROUP HOLDINGS CO LTD	47.89	8	342	359
KION GROUP AG	63.14	16	1,012	1,035
KIRIN HOLDINGS CO LTD	21.57	0	3	2
KIRKLAND LAKE GOLD LTD	43.18	4	160	177
KITO CORP	15.42	1	26	20
KKR REAL ESTATE FINANCE TRUST	19.92	0	4	4
KLA CORP	118.20	10	888	1,147
KLEPIERRE SA	33.57	12	498	389
KLOECKNER & CO SE	6.00	50	623	300
KLOVERN AB	1.57	0	0	0
KOBE BUSSAN CO LTD	48.54	0	11	19
KOBE STEEL LTD	6.54	102	955	664
KOHL'S CORP	47.55	18	1,027	861
KOMATSU LTD	24.13	4	94	94
KONAMI HOLDINGS CORP	46.87	1	52	47
KONICA MINOLTA INC	9.74	63	622	617
KONINKLIJKE AHOLD DELHAIZE NV	22.52	482	11,491	10,856
KONINKLIJKE DSM NV	123.79	12	1,233	1,528

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
KONINKLIJKE KPN NV	3.07	370	1,228	1,137
KONINKLIJKE PHILIPS NV	43.49	14	583	619
KONOIKE TRANSPORT CO LTD	15.76	3	37	47
KONTOOR BRANDS INC	28.02	0	3	3
KORN FERRY	40.07	2	78	80
KOSE CORP	167.72	6	936	1,057
KRAFT HEINZ CO/THE	31.04	0	3	3
KUBOTA CORP	16.64	12	175	205
KUEHNE + NAGEL INTERNATIONAL A	148.62	2	298	324
KULICKE & SOFFA INDUSTRIES INC	22.55	1	20	20
KUSURI NO AOKI HOLDINGS CO LTD	70.26	1	61	70
KVAERNER ASA	1.61	1	1	1
KYUSHU ELECTRIC POWER CO INC	9.82	310	3,582	3,045
KYUSHU RAILWAY CO	29.14	12	365	344
L BRANDS INC	26.10	2	48	52
LABORATORY CORP OF AMERICA HOL	172.90	0	43	52
LAM RESEARCH CORP	187.84	18	3,271	3,364
LAMB WESTON HOLDINGS INC	63.36	19	1,221	1,187
LANCASHIRE HOLDINGS LTD	8.76	5	44	45
LAND SECURITIES GROUP PLC	10.60	44	644	468
LANDSTAR SYSTEM INC	107.99	0	10	16
LANNETT CO INC	6.06	13	104	81
LANXESS AG	59.51	2	88	96
LAS VEGAS SANDS CORP	59.09	82	5,247	4,834
LAUREATE EDUCATION INC	15.71	0	2	2
LAWSON INC	47.99	8	478	389
LA-Z-BOY INC	30.66	4	123	132
LEARNING TECHNOLOGIES GROUP PL	1.23	0	0	0
LEG IMMOBILIEN AG	112.97	1	125	122
LEGAL & GENERAL GROUP PLC	3.43	67	227	229
LEGRAND SA	73.22	9	652	665
LEIDOS HOLDINGS INC	79.85	4	250	303
LENDLEASE GROUP	9.12	47	531	426
LENNAR CORP	48.46	6	308	292
LENNOX INTERNATIONAL INC	275.00	0	64	65
LENOVO GROUP LTD	0.77	136	126	105
LEONARDO SPA	12.69	142	1,679	1,804
LEONTEQ AG	35.59	0	18	10
LEOPALACE21 CORP	2.59	6	17	15
LI NING CO LTD	2.36	5	8	11
LIBERBANK SA	0.43	18	7	8
LIBERTY BROADBAND CORP	104.22	3	321	361
LIBERTY EXPEDIA HOLDINGS INC	47.79	4	187	210
LIBERTY MEDIA CORP-LIBERTY FOR	37.41	0	4	4
LIBERTY MEDIA CORP-LIBERTY SIR	37.81	6	223	231
LIBERTY MEDIA CORP-LIBERTY SIR	37.98	23	877	885
LIBERTY PROPERTY TRUST	50.04	3	132	155
LIBERTY TRIPADVISOR HOLDINGS I	12.40	0	5	5
LIFE STORAGE INC	95.08	0	10	10

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
LINAMAR CORP	37.41	0	5	4
LINCOLN ELECTRIC HOLDINGS INC	82.32	0	6	8
LINCOLN NATIONAL CORP	64.45	6	394	400
LINDE PLC	200.80	2	324	326
LINDE PLC	201.17	8	1,434	1,617
LINICAL CO LTD	9.24	3	53	30
LINK ADMINISTRATION HOLDINGS L	3.51	7	27	24
LINK REIT	12.29	191	1,762	2,341
LION CORP	18.63	4	78	71
LIONS GATE ENTERTAINMENT CORP	11.61	1	8	8
LIQUEFIED NATURAL GAS LTD	0.16	0	0	0
LIVANOVA PLC	71.96	1	55	58
LIVE NATION ENTERTAINMENT INC	66.25	12	691	775
LKQ CORP	26.61	1	39	32
LLOYDS BANKING GROUP PLC	0.72	2,335	1,896	1,681
LOBLAW COMPANIES LTD	51.31	31	1,512	1,607
LOCKHEED MARTIN CORP	363.54	22	7,559	8,076
LOGITECH INTERNATIONAL SA	40.01	16	614	651
LOGMEIN INC	73.68	4	305	273
LONDON STOCK EXCHANGE GROUP PL	69.82	11	547	745
LONDONMETRIC PROPERTY PLC	2.69	0	0	0
LONZA GROUP AG	337.85	8	2,324	2,793
L'OREAL SA	285.27	11	2,573	3,058
LOUISIANA-PACIFIC CORP	26.22	13	324	343
LOWE'S COS INC	100.91	77	7,187	7,811
LPL FINANCIAL HOLDINGS INC	81.57	0	5	8
LULULEMON ATHLETICA INC	180.21	27	2,987	4,834
LUNDIN MINING CORP	5.44	13	95	70
LUNDIN PETROLEUM AB	31.03	59	1,484	1,846
LUTHER BURBANK CORP	10.89	0	2	2
LVMH MOET HENNESSY LOUIS VUITT	426.25	27	7,895	11,539
LYONDELLBASELL INDUSTRIES NV	86.13	10	815	835
M&T BANK CORP	170.07	5	766	816
M3 INC	18.28	1	31	26
MAANSHAN IRON & STEEL CO LTD	0.40	4	2	2
MACQUARIE GROUP LTD	87.99	31	2,703	2,755
MACQUARIE INFRASTRUCTURE CORP	40.54	3	130	118
MACROGENICS INC	16.97	0	7	5
MACY'S INC	21.46	14	302	297
MAEDA CORP	8.00	4	45	30
MAGELLAN HEALTH INC	74.23	0	7	7
MAGNA INTERNATIONAL INC	49.70	0	19	20
MAGNA INTL INC	49.86	42	2,213	2,105
MAGNOLIA OIL & GAS CORP	11.58	0	1	1
MAKINO MILLING MACHINE CO LTD	40.33	1	24	24
MALLINCKRODT PLC	9.18	18	579	168
MAMMOTH ENERGY SERVICES INC	6.88	1	16	7
MAN GROUP PLC/JERSEY	1.98	184	442	366
MAN SE	65.48	7	755	448

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
MANHATTAN ASSOCIATES INC	69.33	0	16	28
MANNKIND CORP	1.15	11	37	12
MANPOWERGROUP INC	96.60	63	5,557	6,040
MANTECH INTERNATIONAL CORP/VA	65.85	1	39	40
MAPFRE SA	2.93	529	1,706	1,548
MARATHON OIL CORP	14.21	129	2,048	1,829
MARATHON PETROLEUM CORP	55.88	10	566	578
MARIE BRIZARD WINE & SPIRITS S	2.51	1	20	3
MARIE BRIZARD WINE C/W	0.18	1	0	0
MARKETAXESS HOLDINGS INC	321.42	0	15	32
MARKS & SPENCER GROUP PLC	2.68	0	1	1
MARSTON'S PLC	1.49	0	0	0
MARUBENI CORP	6.62	338	2,425	2,235
MARVELOUS INC	7.60	4	32	30
MASCO CORP	39.24	75	2,744	2,944
MASIMO CORP	148.82	3	226	387
MASONITE INTERNATIONAL CORP	52.68	0	6	5
MASTERCARD INC	264.53	83	14,241	21,880
MATCH GROUP INC	67.27	20	847	1,312
MATSON INC	38.85	0	7	8
MATSUI SECURITIES CO LTD	9.43	21	216	196
MAXIM INTEGRATED PRODUCTS INC	59.82	7	343	407
MAYNE PHARMA GROUP LTD	0.36	0	0	0
MAZDA MOTOR CORP	10.44	70	891	726
MCCARTHY & STONE PLC	1.74	0	0	0
MCCORMICK & CO INC/MD	155.01	21	2,788	3,268
MCDONALD'S CORP	207.66	60	10,801	12,551
MCDONALD'S HOLDINGS CO JAPAN L	44.09	19	699	829
MCKESSON CORP	134.39	36	4,898	4,872
MDU RESOURCES GROUP INC	25.80	3	68	67
MEBUKI FINANCIAL GROUP INC	2.61	11	38	28
MEDIASET ESPANA COMUNICACION S	7.28	2	27	18
MEDIBANK PVT LTD	2.45	226	453	554
MEDICINOVA INC	9.63	0	1	1
MEDICLINIC INTERNATIONAL PLC	3.88	31	331	119
MEDIOBANCA BANCA DI CREDITO FI	10.32	84	794	867
MEDIPAL HOLDINGS CORP	22.08	40	845	883
MEDLEY CAPITAL CORP	2.34	0	0	0
MEDNAX INC	25.23	4	113	93
MEDPACE HOLDINGS INC	65.42	0	13	20
MEDTRONIC PLC	97.39	146	13,340	14,175
MEGGITT PLC	6.67	134	936	893
MEIHO ENTERPRISE CO LTD	2.09	3	9	5
MEIKO ELECTRONICS CO LTD	16.36	29	497	476
MELCO RESORTS & ENTERTAINMENT	21.72	4	100	87
MELIA HOTELS INTERNATIONAL SA	9.57	10	119	95
MELLANOX TECHNOLOGIES LTD	110.67	0	6	11
MELROSE INDUSTRIES PLC	2.30	346	873	796
MERCADOLIBRE INC	611.77	1	761	801

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Issuer	Price	Shares	Cost	Market Value
MERCK & CO INC	83.85	393	26,245	32,952
MERCK KGAA	104.72	7	809	783
MERIDIAN BANCORP INC	17.89	0	3	4
MERIDIAN ENERGY LTD	3.19	158	399	504
METHANEX CORP	45.46	1	43	36
METHANEX CORP	45.49	11	544	512
METLIFE INC	49.67	105	4,796	5,233
METRO AG	18.31	20	336	371
METRO INC	37.60	10	363	376
METTLER-TOLEDO INTERNATIONAL I	840.00	1	633	737
MEYER BURGER TECHNOLOGY AG	0.54	0	0	0
MFA FINANCIAL INC	7.18	7	48	47
MGIC INVESTMENT CORP	13.14	1	8	8
MGM GROWTH PROPERTIES LLC	30.65	2	61	61
MICHAELS COS INC/THE	8.70	0	2	1
MICRO FOCUS INTERNATIONAL PLC	26.27	69	1,669	1,824
MICRON TECHNOLOGY INC	38.59	140	5,961	5,411
MICROSOFT CORP	133.96	504	40,384	67,462
MID-AMERICA APARTMENT COMMUNIT	117.76	9	934	1,070
MINEBEA MITSUMI INC	16.94	149	2,408	2,522
MIRACA HOLDINGS INC	22.74	1	22	23
MITCHELLS & BUTLERS PLC	3.65	0	0	0
MITIE GROUP PLC	1.86	0	0	0
mitsubishi chemical holdings C	6.99	50	358	351
MITSUBISHI CORP	26.36	306	8,230	8,074
MITSUBISHI ESTATE CO LTD	18.61	28	456	517
MITSUBISHI GAS CHEMICAL CO INC	13.33	30	496	393
MITSUBISHI HEAVY INDUSTRIES LT	43.54	49	2,088	2,116
MITSUBISHI MATERIALS CORP	28.45	16	386	455
MITSUBISHI MOTORS CORP	4.79	44	198	210
MITSUBISHI UFJ FINANCIAL GROUP	4.75	0	2	2
MITSUBISHI UFJ FINANCIAL GROUP	4.75	555	3,449	2,637
MITSUI & CO LTD	16.28	6	102	96
MITSUI E&S HOLDINGS CO LTD	9.22	10	111	94
MITSUI MINING & SMELTING CO LT	23.91	7	181	175
MITSUI OSK LINES LTD	23.94	8	245	189
MIXI INC	20.06	42	1,779	832
MIZUHO FINANCIAL GROUP INC	1.45	2,118	3,812	3,069
MIZUHO FINANCIAL GROUP INC	2.88	1	1	1
MOBILE MINI INC	30.43	1	15	15
MOBILEZONE HOLDING AG	10.23	2	26	16
MOELIS & CO	34.95	0	3	3
MOHAWK INDUSTRIES INC	147.47	0	12	15
MOLINA HEALTHCARE INC	143.14	9	948	1,217
MOLSON COORS BREWING CO	56.00	6	337	340
MOMENTA PHARMACEUTICALS INC	12.45	0	2	1
MONASH IVF GROUP LTD	0.98	0	0	0
MONDELEZ INTERNATIONAL INC	53.90	164	6,988	8,850
MONDI PLC	22.78	18	384	416

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
MONEY PARTNERS GROUP CO LTD	2.75	25	126	68
MONEYGRAM INTERNATIONAL INC	2.47	2	20	4
MONOTARO CO LTD	24.37	48	1,103	1,163
MONSTER BEVERAGE CORP	63.83	68	3,873	4,335
MOODY'S CORP	195.31	6	657	1,172
MOOG INC	93.61	0	16	28
MORGAN ADVANCED MATERIALS PLC	3.54	0	0	0
MORGAN STANLEY	43.81	43	1,868	1,895
MORPHOSYS AG	96.17	0	3	2
MOSAIC CO/THE	25.03	76	2,178	1,895
MOTA-ENGIL SGPS SA	2.17	0	0	0
MOTOROLA SOLUTIONS INC	166.73	39	4,019	6,423
MOWI ASA	23.39	74	1,654	1,735
MRC GLOBAL INC	17.12	1	13	14
MSC INDUSTRIAL DIRECT CO INC	74.26	0	24	22
MSCI CAD INDX NL FUND (CA-12)	101.12	411	35,244	41,528
MSCI EAFE INDX NL FD (FD12)	99.14	4,113	317,473	407,793
MSCI INC	238.79	1	142	238
MTU AERO ENGINES AG	238.58	10	2,087	2,355
MTY FOOD GROUP INC	50.02	0	10	10
MUELLER WATER PRODUCTS INC	9.82	0	2	2
MUENCHENER RUECKVERSICHERUNGS-	251.33	9	1,988	2,193
MURATA MANUFACTURING CO LTD	44.92	4	192	162
MURPHY OIL CORP	24.65	0	9	7
MYER HOLDINGS LTD	0.38	0	0	0
MYLAN NV	19.04	322	7,191	6,136
MYOKARDIA INC	50.14	1	44	50
MYOVANT SCIENCES LTD	9.05	0	4	4
MYRIAD GENETICS INC	27.78	29	744	800
N BROWN GROUP PLC	1.65	0	0	0
NABTESCO CORP	27.79	13	350	358
NASDAQ INC	96.17	13	1,205	1,250
NATIONAL AUSTRALIA BANK LTD	18.75	0	4	3
NATIONAL BANK OF CANADA	47.61	113	4,260	5,370
NATIONAL GRID PLC	10.64	45	505	478
NATIONAL HEALTH INVESTORS INC	78.03	0	6	8
NATIONAL INSTRUMENTS CORP	41.99	2	77	76
NATIONAL OILWELL VARCO INC	22.23	0	3	2
NATIONAL RETAIL PROPERTIES INC	53.01	31	1,574	1,642
NATURAL GROCERS BY VITAMIN COT	10.05	0	2	2
NATURGY ENERGY GROUP SA	27.59	61	1,609	1,694
NATUS MEDICAL INC	25.69	0	10	10
NAUTILUS INC	2.21	1	5	2
NAVIENT CORP	13.65	44	594	597
NAVIGATOR CO SA/THE	3.82	0	1	1
NCC GROUP PLC	2.08	0	0	0
NCR CORP	31.10	2	55	56
NEINOR HOMES SA	12.19	0	3	2
NEL ASA	0.81	0	0	0

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Issuer	Price	Shares	Cost	Market Value
NEOPHOTONICS CORP	4.18	1	4	4
NEOPOST SA	21.41	0	4	2
NESTE OYJ	33.98	147	3,470	5,011
NESTLE SA	103.65	174	14,732	18,063
NETAPP INC	61.70	78	5,127	4,838
NETENT AB	3.21	0	0	0
NETFLIX INC	367.32	11	3,139	4,038
NETGEAR INC	25.29	0	3	3
NETSCOUT SYSTEMS INC	25.39	4	94	89
NEUROCRINE BIOSCIENCES INC	84.43	1	133	110
NEVRO CORP	64.83	4	245	272
NEW WORLD DEVELOPMENT CO LTD	1.56	841	1,345	1,315
NEWCREST MINING LTD	22.42	57	996	1,288
NEWMONT GOLDCORP CORP	38.47	0	4	4
NEWS CORP	13.49	37	506	505
NEXANS SA	33.62	0	4	4
NEXON CO LTD	14.50	6	82	80
NEXT PLC	70.33	0	11	7
NEXTERA ENERGY INC	204.86	52	6,913	10,637
NIBE INDUSTRIER AB	14.65	3	27	37
NICE LTD	136.01	9	937	1,237
NICE LTD	137.00	0	13	26
NICHIIGAKKAN CO LTD	14.57	4	38	61
NICHIREI CORP	23.73	1	28	28
NIDEC CORP	136.67	4	545	519
NIELSEN HOLDINGS PLC	22.60	1	17	16
NIHON HOUSE HOLDINGS CO LTD	3.86	4	17	14
NIHON M&A CENTER INC	23.98	0	2	2
NIHON UNISYS LTD	33.55	12	166	389
NIKE INC	83.95	72	5,667	6,052
NIKON CORP	14.15	79	1,259	1,116
NINTENDO CO LTD	366.53	3	913	953
NIPPON BUILDING FUND INC	6,849.82	0	1,490	1,699
NIPPON CARBON CO LTD	38.33	1	27	23
NIPPON CHEMI-CON CORP	14.61	2	61	35
NIPPON ELECTRIC GLASS CO LTD	25.33	29	761	732
NIPPON EXPRESS CO LTD	53.18	26	1,419	1,377
NIPPON PAPER INDUSTRIES CO LTD	17.71	2	34	34
NIPPON PROLOGIS REIT INC	2,310.19	0	376	395
NIPPON STEEL CORP	17.16	5	91	81
NIPPON TELEGRAPH & TELEPHONE C	46.57	108	4,770	5,020
NIPRO CORP	11.09	10	113	106
NISHIO RENT ALL CO LTD	28.26	4	118	119
NISOURCE INC	28.80	28	751	805
NISSAN CHEMICAL CORP	45.06	28	1,285	1,248
NISSAN MOTOR CO LTD	7.16	281	2,266	2,015
NISSO CORP	13.77	1	11	12
NITORI HOLDINGS CO LTD	132.54	1	144	159
NITTO DENKO CORP	49.35	12	583	568

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
NN GROUP NV	40.31	108	4,357	4,355
NOJIMA CORP	16.31	5	85	88
NOKIA OYJ	4.97	28	152	140
NOKIA OYJ	4.99	54	300	269
NOKIAN RENKAAT OYJ	31.27	0	2	1
NOMAD FOODS LTD	21.36	3	54	56
NOMURA REAL ESTATE MASTER FUND	1,537.96	0	608	706
NOMURA RESEARCH INSTITUTE LTD	16.03	20	301	326
NORDEX SE	13.80	1	12	12
NORDSON CORP	141.31	0	6	14
NORDSTROM INC	31.86	10	334	319
NORFOLK SOUTHERN CORP	199.33	5	809	898
NORMA GROUP SE	41.50	2	125	91
NORSK HYDRO ASA	3.58	0	1	1
NORTHERN STAR RESOURCES LTD	8.18	37	189	302
NORTHERN TRUST CORP	90.00	5	536	459
NORTHROP GRUMMAN CORP	323.11	1	414	428
NORTHWEST BANCSHARES INC	17.61	1	8	9
NOS SGPS SA	6.58	3	27	21
NOVA MEASURING INSTRUMENTS LTD	25.59	1	24	24
NOVARTIS AG	91.49	87	6,798	7,962
NOVO NORDISK A/S	51.04	218	10,463	11,125
NOVO NORDISK A/S	51.04	0	5	5
NOVOZYMES A/S	46.70	1	68	65
NOW INC	14.76	1	13	13
NRG ENERGY INC	35.12	86	3,230	3,030
NS SOLUTIONS CORP	31.74	6	128	178
NTN CORP	2.97	28	113	82
NTT DATA CORP	13.32	63	705	840
NTT DOCOMO INC	23.32	29	673	674
NU SKIN ENTERPRISES INC	49.32	0	13	10
NUANCE COMMUNICATIONS INC	15.97	13	203	209
NUTANIX INC	25.94	5	131	130
NVENT ELECTRIC PLC	24.79	5	120	126
NVIDIA CORP	164.23	37	5,518	6,011
NVR INC	3,370.25	0	319	371
NWS HOLDINGS LTD	2.06	131	196	269
NXP SEMICONDUCTORS NV	97.61	3	300	322
OAKTREE SPECIALTY LENDING CORP	5.42	1	4	4
OBAYASHI CORP	9.85	0	2	2
OBIC CO LTD	113.24	3	387	385
OBRASCON HUARTE LAIN SA	1.28	0	0	0
OC OERLIKON CORP AG	12.23	2	34	25
OCADO GROUP PLC	14.85	0	1	1
OCCIDENTAL PETROLEUM CORP	50.28	102	6,212	5,151
OCEANEERING INTERNATIONAL INC	20.39	1	28	24
ODAKYU ELECTRIC RAILWAY CO LTD	24.48	13	289	306
OESTERREICHISCHE POST AG	33.65	5	225	171
OFFICE DEPOT INC	2.06	1	2	1

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
OFG BANCORP	23.77	0	8	10
OGE ENERGY CORP	42.56	35	1,417	1,488
OIL SEARCH LTD	4.96	42	257	207
OJI HOLDINGS CORP	5.77	10	60	59
OKI ELECTRIC INDUSTRY CO LTD	12.48	1	15	16
OLD DOMINION FREIGHT LINE INC	149.26	0	23	27
OLD MUTUAL LTD	1.49	187	534	279
OLIN CORP	21.91	3	58	57
OMEGA HEALTHCARE INVESTORS INC	36.75	0	4	4
OMEROS CORP	15.69	1	19	19
OMNICOM GROUP INC	81.95	3	260	280
OMNOVA SOLUTIONS INC	6.23	0	1	1
OMV AG	48.80	0	2	4
ON DECK CAPITAL INC	4.15	0	1	1
ONEMAIN HOLDINGS INC	33.81	0	3	3
ONEOK INC	68.81	28	1,823	1,911
ONO PHARMACEUTICAL CO LTD	17.93	33	840	586
ONWARD HOLDINGS CO LTD	5.51	2	13	12
OPEN TEXT CORPORATION	41.35	24	868	1,001
OPKO HEALTH INC	2.44	2	4	4
OPPENHEIMER HOLDINGS INC	27.22	0	3	3
ORACLE CORP	56.97	169	8,704	9,613
ORACLE CORP JAPAN	73.05	6	512	453
ORANGE BELGIUM SA	19.86	1	23	19
ORANGE SA	15.79	0	4	4
ORASURE TECHNOLOGIES INC	9.28	3	29	28
O'REILLY AUTOMOTIVE INC	369.32	14	4,905	5,094
ORICA LTD	14.22	62	963	887
ORIENTAL LAND CO LTD/JAPAN	123.82	23	2,280	2,848
ORION ENGINEERED CARBONS SA	21.41	1	10	11
ORION OYJ	36.70	54	1,960	1,968
ORKLA ASA	8.88	165	1,408	1,461
ORPEA	120.83	0	2	2
ORSTED A/S	86.60	40	2,465	3,422
OSHKOSH CORP	83.49	1	98	109
OTELLO CORP ASA	1.73	7	41	12
OTONOMY INC	2.75	1	3	2
OTSUKA CORP	40.24	0	15	16
OVERSEA-CHINESE BANKING CORP L	8.43	40	302	334
OVERSEAS SHIPHOLDING GROUP INC	1.88	1	2	2
OWENS CORNING	58.20	16	893	959
OZ MINERALS LTD	7.04	5	32	33
PACCAR INC	71.66	0	22	21
PACIRA BIOSCIENCES INC	43.49	0	12	13
PACKAGING CORP OF AMERICA	95.32	1	45	48
PACWEST BANCORP	38.83	0	9	7
PALO ALTO NETWORKS INC	203.76	23	4,104	4,647
PANASONIC CORP	8.33	1	12	10
PANDORA A/S	35.63	93	4,579	3,297

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
PARAGON BANKING GROUP PLC	5.58	6	36	32
PAREX RESOURCES INC	16.08	4	67	68
PARK ELECTROCHEMICAL CORP	16.69	0	2	2
PARK HOTELS & RESORTS INC	27.56	1	18	17
PARK24 CO LTD	23.29	0	3	2
PARSLEY ENERGY INC	19.01	8	145	143
PARTNERS GROUP HOLDING AG	786.67	2	1,614	1,702
PATTERSON COS INC	22.90	4	91	89
PAYCHEX INC	82.29	17	1,319	1,373
PAYCOM SOFTWARE INC	226.72	1	285	281
PAYPAL HOLDINGS INC	114.46	85	7,207	9,777
PBF ENERGY INC	31.30	0	14	9
PC DEPOT CORP	3.96	3	15	11
PCCW LTD	0.58	142	85	82
PEABODY ENERGY CORP	24.10	8	282	195
PEARSON PLC	10.43	255	2,946	2,655
PEMBINA PIPELINE CORP	37.31	11	361	407
PENDRAGON PLC	0.21	0	0	0
PENTAIR PLC	37.20	0	4	4
PEPSICO INC	131.13	133	15,403	17,502
PEPTIDREAM INC	51.14	0	16	15
PERFORMANCE FOOD GROUP CO	40.03	0	3	4
PERNOD RICARD SA	184.54	2	412	437
PERRIGO CO PLC	47.62	2	152	105
PERSEUS MINING LTD	0.41	14	6	6
PERSOL HOLDINGS CO LTD	23.49	18	373	411
PERSPECTA INC	23.41	19	416	438
PETRA DIAMONDS LTD	0.25	13	14	3
PETROFAC LTD	5.47	3	24	16
PETS AT HOME GROUP PLC	2.38	3	6	6
PEUGEOT SA	24.68	199	4,007	4,899
PFIZER INC	43.32	387	16,140	16,779
PGT INNOVATIONS INC	16.72	0	5	5
PHARMA FOODS INTERNATIONAL CO	4.46	2	14	10
PHILIP MORRIS INTERNATIONAL IN	78.53	125	10,451	9,793
PHILLIPS 66	93.54	8	670	721
PHYSICIANS REALTY TRUST	17.44	0	2	2
PIAGGIO & C SPA	2.94	23	51	68
PIEDMONT OFFICE REALTY TRUST I	19.93	0	2	2
PIERIS PHARMACEUTICALS INC	4.70	0	0	0
PILBARA MINERALS LTD	0.38	0	0	0
PILGRIM'S PRIDE CORP	25.39	1	19	23
PING AN INSURANCE GROUP CO OF	12.01	102	994	1,219
PINNACLE WEST CAPITAL CORP	94.09	18	1,682	1,667
PINTEREST INC	27.22	2	51	52
PIONEER NATURAL RESOURCES CO	153.86	2	270	292
PITNEY BOWES INC	4.28	11	140	45
PIVOTAL SOFTWARE INC	10.56	30	328	313
PJT PARTNERS INC	40.52	0	4	4

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Issuer	Price	Shares	Cost	Market Value
PLAINS GP HOLDINGS LP	24.97	1	31	32
PLANTRONICS INC	37.04	0	9	7
PLATINUM ASSET MANAGEMENT LTD	3.40	24	151	82
PLAYA HOTELS & RESORTS NV	7.71	0	1	1
PLAYAGS INC	19.45	0	4	4
PLAYTECH PLC	5.43	16	184	89
PLURALSIGHT INC	30.32	3	84	85
PNC FINANCIAL SERVICES GROUP I	137.28	38	4,873	5,168
POLYMETAL INTERNATIONAL PLC	12.69	10	87	131
POLYONE CORP	31.39	0	3	3
POPULAR INC	54.24	0	10	11
PORSCHE AUTOMOBIL HOLDING SE	65.07	4	273	280
PORTLAND GENERAL ELECTRIC CO	54.17	1	33	43
POST HOLDINGS INC	103.97	0	9	10
POSTAL SAVINGS BANK OF CHINA C	0.59	3	2	2
POSTE ITALIANE SPA	10.55	0	3	3
POSTNL NV	1.74	0	0	0
POWER ASSETS HOLDINGS LTD	7.19	142	1,118	1,021
POWER CORP CANADA	21.59	0	2	2
POWER FINANCIAL CORP	23.05	3	61	60
PPL CORP	31.01	10	307	319
PRECISION SYSTEM SCIENCE CO LT	3.96	4	18	15
PREMIER INC	39.11	1	26	31
PREMIER OIL PLC	0.98	0	0	0
PRIMARY HEALTH PROPERTIES PLC	1.70	0	0	0
PRINCIPAL FINANCIAL GROUP INC	57.92	7	425	433
PROASSURANCE CORP	36.11	0	10	7
PROCTER & GAMBLE CO/THE	109.65	142	14,086	15,612
PROGRESS SOFTWARE CORP	43.62	0	15	17
PROGRESSIVE CORP/THE	79.93	102	5,168	8,143
PROLOGIS INC	80.10	13	565	1,014
PROSEGUR CASH SA	1.98	0	0	0
PROSEGUR CIA DE SEGURIDAD SA	4.70	0	0	0
PROSPECT CAPITAL CORP	6.53	1	3	3
PROTAGONIST THERAPEUTICS INC	12.11	0	1	1
PROTECTOR FORSIKRING ASA	6.53	0	0	0
PROXIMUS SADP	29.52	4	147	125
PRUDENTIAL FINANCIAL INC	101.00	3	348	353
PRUDENTIAL PLC	21.84	37	632	804
PRYSMIAN SPA	20.67	0	2	2
PTC THERAPEUTICS INC	45.00	7	105	311
PUBLIC SERVICE ENTERPRISE GROU	58.82	45	2,366	2,658
PUBLIC STORAGE	238.17	7	1,306	1,595
PUBLICIS GROUPE SA	52.87	2	112	110
PUMA BIOTECHNOLOGY INC	12.71	4	257	52
PUMA SE	66.79	7	315	443
PURE STORAGE INC	15.27	42	729	638
PURPLEBRICKS GROUP PLC	1.26	2	10	2
PVH CORP	94.64	4	430	395

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
PZ CUSSONS PLC	2.72	1	4	2
QANTAS AIRWAYS LTD	3.79	333	1,381	1,263
QBE INSURANCE GROUP LTD	8.30	53	459	441
QEP RESOURCES INC	7.23	11	134	82
QIAGEN NV	40.55	18	671	722
QIAGEN NV	40.64	35	1,164	1,416
QINETIQ GROUP PLC	3.56	0	2	2
QORVO INC	66.61	0	25	27
QTS REALTY TRUST INC	46.18	0	5	5
QUAD/GRAPHICS INC	7.91	0	3	1
QUALCOMM INC	76.07	27	2,086	2,051
QUANTA SERVICES INC	38.19	2	52	57
QUEBECOR INC	23.87	19	442	450
QUEST DIAGNOSTICS INC	101.81	0	10	10
QUESTERRE ENERGY CORP	0.19	0	0	0
QUIDEL CORP	59.32	0	4	6
QUILTER PLC	1.79	62	124	111
QURATE RETAIL INC	12.39	35	453	439
RAIFFEISEN BANK INTERNATIONAL	23.49	6	201	139
RAKUTEN INC	11.88	48	473	564
RALPH LAUREN CORP	113.59	38	5,054	4,359
RAMBUS INC	12.04	1	8	8
RAMSAY HEALTH CARE LTD	50.69	2	72	82
RATIONAL AG	689.54	0	46	72
RAVEN INDUSTRIES INC	35.88	0	3	4
RAYTHEON CO	173.88	36	5,631	6,193
REA GROUP LTD	67.40	2	94	109
REALTY INCOME CORP	68.97	46	2,985	3,161
REC SILICON ASA	0.07	0	0	0
RECKITT BENCKISER GROUP PLC	79.09	3	316	262
RECORDATI SPA	41.75	9	349	367
RECRUIT HOLDINGS CO LTD	33.36	30	867	984
RED ELECTRICA CORP SA	20.86	175	3,848	3,649
RED HAT INC	187.76	7	1,376	1,375
REDDE PLC	1.34	42	99	56
REDROW PLC	6.92	11	83	76
REGENCY CENTERS CORP	66.74	8	529	558
REGENERON PHARMACEUTICALS INC	313.00	9	3,014	2,893
REGIONS FINANCIAL CORP	14.94	40	578	598
REGIS CORP	16.60	0	3	3
REGIS HEALTHCARE LTD	1.85	0	0	0
REINSURANCE GROUP OF AMERICA I	156.03	5	638	738
RELIANCE STEEL & ALUMINUM CO	94.62	1	71	95
RELX PLC	24.23	58	1,262	1,407
RELX PLC	24.30	37	806	901
REMY COINTREAU SA	144.40	0	3	4
RENAULT SA	62.96	0	6	6
RENESAS ELECTRONICS CORP	4.97	116	746	577
RENEWABLES INFRASTRUCTURE GROU	1.63	4	6	6

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Issuer	Price	Shares	Cost	Market Value
RENEWI PLC	0.37	1	1	1
RENISHAW PLC	54.19	0	21	18
RENOVA INC	7.24	4	43	28
RENT-A-CENTER INC/TX	26.63	2	52	56
REPSOL SA	0.56	111	62	62
REPSOL SA	15.70	106	1,795	1,659
REPUBLIC SERVICES INC	86.64	1	100	118
RESIDEO TECHNOLOGIES INC	21.92	7	142	151
RESMED INC	12.05	14	138	163
RESMED INC	122.03	7	704	855
RESOLUTE FOREST PRODUCTS INC	7.20	1	8	9
RESOLUTE MINING LTD	0.94	0	0	0
RESONA HOLDINGS INC	4.16	552	2,971	2,299
RESTAURANT BRANDS INTERNATIONA	69.54	17	1,023	1,189
RESTAURANT GROUP PLC/THE	1.68	0	0	0
RETAIL PROPERTIES OF AMERICA I	11.76	0	5	5
RETAIL VALUE INC	34.80	0	1	1
RETELIT SPA	1.59	0	0	0
RETROPHIN INC	20.09	1	12	12
REXFORD INDUSTRIAL REALTY INC	40.37	0	10	10
RHOEN-KLINIKUM AG	30.63	17	482	525
RICOH CO LTD	9.99	125	1,198	1,245
RIGEL PHARMACEUTICALS INC	2.61	0	1	1
RIGHTMOVE PLC	6.81	0	2	3
RIO TINTO LTD	72.81	7	416	492
RIO TINTO PLC	62.11	213	10,544	13,233
RIO TINTO PLC	62.34	2	85	94
RIOCAN REIT	19.89	46	899	920
RLJ LODGING TRUST	17.74	1	21	21
ROBERT HALF INTERNATIONAL INC	57.01	45	2,205	2,557
ROCHE HOLDING AG	281.69	80	19,857	22,566
ROCKET INTERNET SE	28.88	38	1,285	1,099
ROCKWELL AUTOMATION INC	163.83	6	1,066	1,050
ROCKWOOL INTERNATIONAL A/S	255.72	0	58	58
ROGERS COMMUNICATIONS INC	53.64	15	822	810
ROHM CO LTD	67.20	5	385	349
ROLLINS INC	35.87	23	862	829
ROLLS-ROYCE HOLDINGS PLC	10.70	0	0	0
ROSS STORES INC	99.12	41	3,732	4,100
ROTORK PLC	4.03	8	36	31
ROUND ONE CORP	12.69	22	241	275
ROYAL BANK OF CANADA	79.64	76	5,434	6,040
ROYAL BANK OF SCOTLAND GROUP P	2.80	806	2,578	2,255
ROYAL CARIBBEAN CRUISES LTD	121.21	2	172	182
ROYAL DUTCH SHELL PLC	32.69	30	954	965
ROYAL DUTCH SHELL PLC	32.74	202	6,874	6,626
ROYAL DUTCH SHELL PLC	32.85	261	8,995	8,558
ROYAL MAIL PLC	2.70	6	45	15
ROYAL UNIBREW A/S	73.09	2	170	166

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
RPC GROUP PLC	10.09	0	0	0
RSA INSURANCE GROUP PLC	7.34	29	242	209
RUSH ENTERPRISES INC	36.52	0	11	11
RWE AG	24.68	33	796	820
RYANAIR HOLDINGS PLC	64.14	5	355	346
RYMAN HOSPITALITY PROPERTIES I	81.09	0	8	12
S&P GLOBAL INC	227.79	49	6,271	11,221
SA SA INTERNATIONAL HOLDINGS L	0.29	66	22	19
SABRE CORP	22.20	30	651	657
SAF-HOLLAND SA	11.62	0	4	3
SAFILO GROUP SPA	1.05	0	0	0
SAFRAN SA	146.73	22	2,391	3,177
SAGA PLC	0.51	0	0	0
SAGE GROUP PLC/THE	10.21	0	2	3
SAIA INC	64.67	0	2	6
SAILPOINT TECHNOLOGIES HOLDING	20.04	1	20	20
SALESFORCE.COM INC	151.73	52	6,386	7,847
SALINI IMPREGILO SPA	2.02	0	0	0
SALLY BEAUTY HOLDINGS INC	13.34	9	159	123
SALZGITTER AG	28.68	10	438	276
SAMPO OYJ	47.26	35	1,765	1,660
SAMTY CO LTD	15.21	14	206	207
SANDEN HOLDINGS CORP	4.98	1	9	6
SANDRIDGE ENERGY INC	6.92	1	4	4
SANDS CHINA LTD	4.78	14	58	65
SANDSTORM GOLD LTD	5.56	0	2	2
SANDVIK AB	18.39	357	6,140	6,559
SANDY SPRING BANCORP INC	34.88	0	5	5
SANGAMO THERAPEUTICS INC	10.77	1	7	5
SANMINA CORP	30.28	1	26	27
SANOFI	86.45	129	11,029	11,168
SANOMA OYJ	9.66	5	41	49
SANTOS LTD	4.97	41	189	204
SAP SE	136.80	0	11	14
SAP SE	137.52	81	8,655	11,109
SAPUTO INC	30.00	0	3	3
SARAS SPA	1.51	0	0	0
SARTORIUS AG	205.33	2	265	326
SARTORIUS STEDIM BIOTECH	157.95	1	99	133
SAS AB	1.33	0	0	0
SBA COMMUNICATIONS CORP	224.84	20	2,906	4,507
SBI HOLDINGS INC/JAPAN	24.75	8	207	188
SCENTRE GROUP	2.69	241	712	649
SCHIBSTED ASA	27.60	0	4	5
SCHINDLER HOLDING AG	222.87	5	989	1,029
SCHLUMBERGER LTD	39.74	99	4,132	3,948
SCHWEITZER-MAUDUIT INTERNATION	33.18	0	4	4
SCOR SE	43.91	24	1,049	1,036
SCSK CORP	49.19	2	88	98

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Issuer	Price	Shares	Cost	Market Value
SEA LTD	33.22	4	96	136
SEAGATE TECHNOLOGY PLC	47.12	8	388	377
SEALED AIR CORP	42.78	15	742	650
SEATTLE GENETICS INC	69.21	15	1,074	1,032
SEAWORLD ENTERTAINMENT INC	31.00	3	81	87
SECOM CO LTD	86.08	14	1,169	1,188
SECURITAS AB	17.56	3	40	44
SEEK LTD	14.85	11	143	160
SEGA SAMMY HOLDINGS INC	12.15	3	45	35
SEGRO PLC	9.29	98	710	907
SEI INVESTMENTS CO	56.10	0	6	6
SEIKO HOLDINGS CORP	20.35	3	80	63
SEMPRA ENERGY	137.44	1	69	69
SEMTECH CORP	48.05	0	14	14
SENIOR PLC	2.75	26	81	71
SENSATA TECHNOLOGIES HOLDING P	49.00	17	849	830
SERCO GROUP PLC	1.83	242	322	444
SERVICE STREAM LTD	1.97	5	8	9
SERVICEMASTER GLOBAL HOLDINGS	52.09	1	19	36
SERVICENOW INC	274.57	21	5,693	5,854
SES SA	15.66	112	2,264	1,757
SEVEN & I HOLDINGS CO LTD	33.86	40	1,468	1,341
SEVEN BANK LTD	2.62	108	379	282
SEVEN GENERATIONS ENERGY LTD	4.91	1	4	3
SEVEN GROUP HOLDINGS LTD	12.98	3	49	43
SEVEN WEST MEDIA LTD	0.33	2	1	1
SEVERN TRENT PLC	26.06	0	6	5
SG HOLDINGS CO LTD	28.36	13	339	366
SGS SA	2,550.77	0	653	696
SHENZHEN INTERNATIONAL HOLDING	1.98	16	34	31
SHIMADZU CORP	24.52	0	6	5
SHIMAMURA CO LTD	74.72	0	11	7
SHIMANO INC	148.78	0	64	60
SHIN NIPPON BIOMEDICAL LABORAT	6.48	5	37	32
SHINKO ELECTRIC INDUSTRIES CO	8.46	57	374	480
SHINMAYWA INDUSTRIES LTD	12.72	1	15	14
SHINSEI BANK LTD	15.53	70	977	1,087
SHIONOGI & CO LTD	57.63	149	8,404	8,604
SHISEIDO CO LTD	75.38	18	1,269	1,357
SHIZUOKA BANK LTD/THE	7.37	4	40	31
SHOE CARNIVAL INC	27.60	0	4	3
SHOWA DENKO KK	29.42	49	1,725	1,453
SHUI ON LAND LTD	0.23	4	1	1
SHUNTEN INTERNATIONAL HOLDINGS	0.08	3,540	732	285
SHUTTERFLY INC	50.55	0	25	18
SHUTTERSTOCK INC	39.19	1	27	24
SIEMENS GAMESA RENEWABLE ENERG	16.65	0	3	3
SIEMENS HEALTHINEERS AG	42.26	7	274	282
SIENNA SENIOR LIVING INC	14.88	1	9	9

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
SIERRA ONCOLOGY INC	0.56	0	0	0
SIERRA WIRELESS INC	12.08	0	2	2
SIG PLC	1.65	7	15	12
SIGMA HEALTHCARE LTD	0.39	3	1	1
SIGNATURE BANK/NEW YORK NY	120.84	0	22	24
SIGNET JEWELERS LTD	17.88	10	246	177
SIHUAN PHARMACEUTICAL HOLDINGS	0.23	196	89	44
SIKA AG	170.87	2	384	401
SIMCORP A/S	96.89	2	207	242
SIMON PROPERTY GROUP INC	159.76	28	5,086	4,467
SIMPSON MANUFACTURING CO INC	66.46	0	7	7
SIMS METAL MANAGEMENT LTD	7.62	1	13	8
SINA CORP/CHINA	43.13	7	490	293
SINGAPORE TELECOMMUNICATIONS L	2.59	546	1,554	1,413
SINO LAND CO LTD	1.68	412	669	691
SINOPEC ENGINEERING GROUP CO L	0.85	20	17	17
SIRIUS XM HOLDINGS INC	5.58	63	350	349
SKANDINAVISKA ENSKILDA BANKEN	9.26	52	492	482
SKANSKA AB	18.07	52	903	948
SKYCITY ENTERTAINMENT GROUP LT	2.52	0	0	0
SKYWORKS SOLUTIONS INC	77.27	58	4,872	4,465
SL GREEN REALTY CORP	80.37	0	10	8
SLEEP NUMBER CORP	40.39	5	164	204
SLM CORP	9.72	0	3	3
SMA SOLAR TECHNOLOGY AG	29.13	0	12	6
SMARTSHEET INC	48.40	1	47	48
SMC CORP/JAPAN	372.84	1	294	336
SMITH & NEPHEW PLC	21.70	22	342	482
SNAM SPA	4.98	237	1,198	1,182
SNAP INC	14.30	1	9	9
SOCIETA INIZIATIVE AUTOSTRADAL	18.57	16	157	299
SOCIETE BIC SA	76.36	4	338	288
SOCIETE GENERALE SA	25.30	61	2,693	1,535
SOCO INTERNATIONAL PLC	0.89	0	0	0
SODEXO SA	117.07	2	237	241
SOFTBANK CORP	12.99	32	418	414
SOFTBANK GROUP CORP	47.94	60	2,633	2,886
SOFTWARE AG	34.39	7	265	250
SOLAREGE TECHNOLOGIES INC	62.46	0	6	6
SOLARWINDS CORP	18.34	0	7	7
SOLID BIOSCIENCES INC	5.75	0	0	1
SOLOCAL GROUP	1.03	0	0	0
SOLVAY SA	103.74	1	93	91
SOMPO HOLDINGS INC	38.62	0	2	2
SONAE SGPS SA	0.97	1	1	1
SONIC HEALTHCARE LTD	19.02	5	87	96
SONOS INC	11.34	0	5	5
SONOVA HOLDING AG	227.49	20	3,310	4,506
SONY CORP	52.39	3	115	136

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Issuer	Price	Shares	Cost	Market Value
SONY CORP	52.42	137	6,453	7,182
SONY FINANCIAL HOLDINGS INC	24.02	9	179	204
SOPHOS GROUP PLC	5.02	5	33	27
SOPRA STERIA GROUP	116.73	0	0	0
SOUTH32 LTD	2.21	0	0	0
SOUTH32 LTD	2.23	965	2,384	2,153
SOUTHERN CO/THE	55.28	37	1,936	2,040
SOUTHERN NATIONAL BANCORP OF V	15.31	0	1	2
SOUTHWEST AIRLINES CO	50.78	198	10,456	10,048
SPARK NEW ZEALAND LTD	2.67	42	83	113
SPARK NEW ZEALAND LTD	2.69	346	929	929
SPDR S&P 500 ETF TRUST	293.00	15	4,156	4,307
SPECTRIS PLC	36.63	5	172	193
SPIRE HEALTHCARE GROUP PLC	1.52	0	0	0
SPIRE INC	83.92	0	6	8
SPIRIT AEROSYSTEMS HOLDINGS IN	81.37	124	8,500	10,120
SPIRIT MTA REIT	8.34	0	1	1
SPIRIT OF TEXAS BANCSHARES INC	22.50	0	2	2
SPLUNK INC	125.75	0	33	38
SPORTS DIRECT INTERNATIONAL PL	3.52	0	0	0
SPOTIFY TECHNOLOGY SA	146.22	0	27	29
SQUARE INC	72.53	40	2,381	2,871
SSE PLC	14.28	0	9	6
SSP GROUP PLC	8.73	2	17	16
SSY GROUP LTD	0.90	50	55	45
STAG INDUSTRIAL INC	30.24	0	3	3
STAGECOACH GROUP PLC	1.62	17	61	27
STAMPS.COM INC	45.27	11	437	507
STANDARD CHARTERED PLC	9.09	0	4	4
STANDARD LIFE ABERDEEN PLC	3.75	253	1,604	949
STAR ENTERTAINMENT GRP LTD/THE	2.89	11	30	32
STARBUCKS CORP	83.83	185	13,267	15,527
STARS GROUP INC (THE)	17.10	4	85	68
STARTS CORP INC	23.58	1	13	14
STATE AUTO FINANCIAL CORP	35.00	0	7	7
STATE STREET CORP	56.06	21	1,243	1,187
STEEL DYNAMICS INC	30.20	49	1,922	1,492
STEELCASE INC	17.10	0	6	7
STERICYCLE INC	47.75	0	6	5
STITCH FIX INC	31.99	1	32	42
STMICROELECTRONICS NV	17.77	41	600	720
STOCK YARDS BANCORP INC	36.15	0	7	7
STOCKLAND	2.93	159	493	465
STORA ENSO OYJ	11.77	5	76	64
STORE CAPITAL CORP	33.19	7	208	226
STOREBRAND ASA	7.35	4	32	30
STRAUMANN HOLDING AG	883.49	0	51	68
STROEER SE & CO KGAA	75.22	1	55	74
STRONGBRIDGE BIOPHARMA PLC	3.13	1	3	2

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
STRYKER CORP	205.58	6	1,181	1,273
SUEZ	14.45	60	782	866
SULZER AG	109.44	0	32	34
SUMCO CORP	11.90	93	1,061	1,107
SUMIDA CORP	10.73	0	1	1
SUMITOMO CHEMICAL CO LTD	4.64	144	926	669
SUMITOMO CORP	15.15	133	2,007	2,020
SUMITOMO DAINIPPON PHARMA CO L	18.96	108	2,521	2,040
SUMITOMO ELECTRIC INDUSTRIES L	13.13	0	5	5
SUMITOMO HEAVY INDUSTRIES LTD	34.39	45	1,626	1,534
SUMITOMO MITSUI CONSTRUCTION C	5.54	4	23	20
SUMITOMO MITSUI FINANCIAL GROU	35.33	91	3,505	3,215
SUMITOMO REALTY & DEVELOPMENT	35.72	15	579	539
SUN COMMUNITIES INC	128.19	0	11	17
SUN LIFE FINANCIAL INC	41.50	3	96	108
SUNCOR ENERGY INC	31.26	105	3,342	3,279
SUNDRUG CO LTD	27.07	12	456	330
SUNPOWER CORP	10.69	1	7	7
SUNRISE COMMUNICATIONS GROUP A	74.72	1	126	103
SUNSTONE HOTEL INVESTORS INC	13.71	2	32	33
SUNTEC REAL ESTATE INVESTMENT	1.43	205	279	294
SUNTORY BEVERAGE & FOOD LTD	43.48	2	76	78
SUPERIOR ENERGY SERVICES INC	1.30	1	6	1
SUZUKEN CO LTD/AICHI JAPAN	58.66	15	784	897
SUZUKI MOTOR CORP	47.00	36	1,821	1,706
SVB FINANCIAL GROUP	224.59	0	21	22
SVENSKA HANDELSBANKEN AB	9.90	8	82	83
SWATCH GROUP AG/THE	54.21	9	514	470
SWATCH GROUP AG/THE	286.67	2	733	662
SWEDBANK AB	15.03	0	3	2
SWEDISH MATCH AB	42.25	135	6,497	5,689
SWEDISH ORPHAN BIOVITRUM AB	19.28	1	27	22
SWIRE PACIFIC LTD	12.29	108	1,212	1,327
SWIRE PROPERTIES LTD	4.04	166	645	669
SWISS LIFE HOLDING AG	496.21	12	4,761	6,172
SWISS RE AG	101.78	0	6	6
SWISSCOM AG	502.67	7	3,246	3,469
SYDBANK A/S	19.09	0	4	2
SYDNEY AIRPORT	5.64	28	134	156
SYMANTEC CORP	21.76	80	1,626	1,734
SYMRISE AG	96.39	5	406	437
SYNAPTICS INC	29.14	1	22	17
SYNCHRONY FINANCIAL	34.67	368	12,185	12,755
SYNEOS HEALTH INC	51.09	0	9	10
SYNOPSIS INC	128.69	12	846	1,519
SYRAH RESOURCES LTD	0.62	0	0	0
SYSCO CORP	70.72	24	1,652	1,672
T ROWE PRICE GROUP INC	109.71	5	580	586
TABLEAU SOFTWARE INC	166.02	3	349	465

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
TACHI-S CO LTD	12.85	3	39	36
TADANO LTD	10.42	11	149	112
TAG IMMOBILIEN AG	23.14	141	2,448	3,251
TAIHEIYO CEMENT CORP	30.26	42	1,362	1,256
TAILORED BRANDS INC	5.77	8	71	46
TAISEI CORP	36.34	83	3,835	2,998
TAISHO PHARMACEUTICAL HOLDINGS	76.76	4	311	307
TAKARA BIO INC	19.06	13	325	246
TAKARA LEBEN CO LTD	3.55	8	37	30
TAKASHIMAYA CO LTD	10.96	9	102	98
TAKEDA PHARMACEUTICAL CO LTD	35.48	22	863	790
TAKE-TWO INTERACTIVE SOFTWARE	113.53	1	56	57
TALANX AG	43.39	0	2	3
TALGO SA	6.24	1	5	5
TALKTALK TELECOM GROUP PLC	1.42	1	1	1
TAPESTRY INC	31.73	2	50	48
TARGA RESOURCES CORP	39.26	18	681	697
TARGET CORP	86.61	32	2,566	2,772
TARO PHARMACEUTICAL INDUSTRIES	85.42	0	8	9
TATE & LYLE PLC	9.40	12	94	110
TAYLOR MORRISON HOME CORP	20.96	0	2	2
TAYLOR WIMPEY PLC	2.01	257	761	516
TC ENERGY CORP	49.68	44	1,928	2,196
TCF FINANCIAL CORP/DE	20.79	0	2	2
TCG BDC INC	15.24	1	17	17
TE CONNECTIVITY LTD	95.78	0	8	10
TEAMSPIRIT INC	22.40	1	21	18
TECHNICOLOR SA	0.93	0	0	0
TECHNIPFMC PLC	25.74	88	2,681	2,273
TECHNO HORIZON HOLDINGS CO LTD	4.97	17	42	85
TECHNOLOGY ONE LTD	5.53	4	24	23
TECK RESOURCES LTD	23.13	51	1,125	1,184
TEIJIN LTD	17.05	14	292	239
TELE2 AB	14.60	0	3	3
TELECOM ITALIA SPA/MILANO	0.52	679	347	353
TELECOM ITALIA SPA/MILANO	0.55	797	427	436
TELEFONAKTIEBOLAGET LM ERICSSO	9.50	320	2,855	3,037
TELEFONICA DEUTSCHLAND HOLDING	2.80	20	71	56
TELEFONICA SA	8.22	0	1	1
TELEKOM AUSTRIA AG	7.56	16	102	118
TELENET GROUP HOLDING NV	55.80	5	277	286
TELENOR ASA	21.24	47	918	1,009
TELEPERFORMANCE	200.66	8	1,378	1,659
TELEPHONE & DATA SYSTEMS INC	30.40	1	27	27
TELIA CO AB	4.44	168	787	746
TELIT COMMUNICATIONS PLC	2.04	0	0	0
TELSTRA CORP LTD	2.70	692	1,696	1,870
TELUS CORP	37.05	56	1,945	2,060
TEMENOS AG	179.13	0	60	76

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
TENABLE HOLDINGS INC	28.54	0	8	9
TENARIS SA	13.11	28	350	372
TENNECO INC	11.09	1	28	15
TERADATA CORP	35.85	1	54	50
TERADYNE INC	47.91	12	489	577
TERNA RETE ELETTRICA NAZIONALE	6.38	161	992	1,029
TERRAFORM POWER INC	14.30	3	38	47
TERUMO CORP	29.79	68	1,931	2,023
TESCO PLC	2.89	396	1,068	1,144
TETRA TECH INC	78.55	0	8	8
TEVA PHARMACEUTICAL INDUSTRIES	9.23	35	404	324
TEXAS INSTRUMENTS INC	114.76	67	6,563	7,637
TEXTRON INC	53.04	7	340	376
TFI INTERNATIONAL INC	30.33	0	12	12
TGS NOPEC GEOPHYSICAL CO ASA	28.06	8	282	223
THALES SA	123.73	3	375	384
THERMO FISHER SCIENTIFIC INC	293.68	15	4,058	4,511
THIRD POINT REINSURANCE LTD	10.32	1	5	5
THK CO LTD	23.90	19	383	449
THOMSON REUTERS CORP	64.65	11	638	724
THYSSENKRUPP AG	14.61	26	374	376
TI FLUID SYSTEMS PLC	2.50	0	0	0
TIFFANY & CO	93.64	3	296	243
TILLY'S INC	7.63	0	3	3
TIMKEN CO/THE	51.34	1	32	41
TIVITY HEALTH INC	16.44	2	61	39
TJX COS INC/THE	52.88	299	13,707	15,817
TLG IMMOBILIEN AG	29.32	0	3	5
T-MOBILE US INC	74.14	0	8	7
TOHO CO LTD/TOKYO	42.51	8	353	357
TOHO GAS CO LTD	36.80	14	556	515
TOHO ZINC CO LTD	23.15	0	5	5
TOHOKU ELECTRIC POWER CO INC	10.11	104	1,211	1,054
TOKEN CORP	56.53	1	73	51
TOKIO MARINE HOLDINGS INC	50.11	50	2,443	2,521
TOKUYAMA CORP	27.03	34	728	916
TOKYO BROADCASTING SYSTEM HOLD	17.08	2	28	29
TOKYO ELECTRIC POWER CO HOLDIN	5.22	769	4,637	4,011
TOKYU CORP	17.74	17	280	294
TOKYU REIT INC	1,737.52	0	7	10
TOM TAILOR HOLDING SE	2.72	0	0	0
TOMY CO LTD	11.63	65	784	761
TOPBUILD CORP	82.76	0	7	17
TOPCON CORP	12.51	4	71	51
TOPDANMARK A/S	56.48	2	60	124
TORCHMARK CORP	89.46	1	63	84
TORO CO/THE	66.90	0	19	20
TORONTO DOMINION BANK	58.56	251	12,794	14,720
TOSHIBA CORP	31.14	120	3,560	3,731

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
TOSOH CORP	14.06	37	731	515
TOTAL SA	56.11	179	10,737	10,069
TOTAL SYSTEM SERVICES INC	128.27	4	460	463
TOWER SEMICONDUCTOR LTD	15.77	2	30	27
TOYO SEIKAN GROUP HOLDINGS LTD	19.84	26	590	506
TOYOTA BOSHOKU CORP	13.12	20	408	257
TOYOTA MOTOR CORP	62.08	12	732	720
TOYOTA MOTOR CORP	123.99	1	67	74
TOYOTA TSUSHO CORP	30.30	13	442	388
TP ICAP PLC	3.81	71	376	272
TPG RE FINANCE TRUST INC	19.29	0	6	6
TPG TELECOM LTD	4.52	5	32	25
TRACTOR SUPPLY CO	108.80	16	1,418	1,687
TRANS GENIC INC	4.17	2	12	8
TRANSALTA RENEWABLES INC	10.60	2	20	19
TRANSDIGM GROUP INC	483.80	3	1,015	1,408
TRANSUNION	73.51	18	1,267	1,288
TREASURY WINE ESTATES LTD	10.47	7	73	76
TREEHOUSE FOODS INC	54.10	1	61	76
TREND MICRO INC/JAPAN	44.60	5	198	210
TRICO BANCSHARES	37.80	0	11	11
TRIMAS CORP	30.97	1	15	15
TRIMBLE INC	45.11	18	535	794
TRINET GROUP INC	67.80	0	14	14
TRINITY INDUSTRIES INC	20.75	0	7	6
TRIPADVISOR INC	46.29	72	3,617	3,325
TRIPLE-S MANAGEMENT CORP	23.85	0	9	10
TRITAX BIG BOX REIT PLC	1.96	0	0	0
TRUEBLUE INC	22.06	0	9	9
TRUSTCO BANK CORP NY	7.92	0	2	2
TRYG A/S	32.56	11	296	372
TUI AG	9.83	3	58	25
TULLOW OIL PLC	2.67	197	530	525
TV TOKYO HOLDINGS CORP	21.73	3	53	74
TWITTER INC	34.90	4	159	150
TYSON FOODS INC	80.74	30	1,897	2,431
UBER TECHNOLOGIES INC	46.38	0	4	5
UBISOFT ENTERTAINMENT SA	78.40	0	47	39
U-BLOX HOLDING AG	85.03	0	34	18
UBS GROUP AG	11.90	0	6	6
UCB SA	83.04	44	3,437	3,628
UDR INC	44.89	31	1,369	1,385
UGI CORP	53.41	32	1,747	1,699
ULTA BEAUTY INC	346.89	7	2,241	2,489
UMICORE SA	32.11	0	2	1
UMPQUA HOLDINGS CORP	16.59	0	5	5
UNDER ARMOUR INC	25.35	18	396	449
UNIBAIL-RODAMCO-WESTFIELD	150.04	5	746	816
UNICHARM CORP	30.11	42	1,279	1,262

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
UNICREDIT SPA	12.33	77	1,126	944
UNIDEN HOLDINGS CORP	17.31	0	3	3
UNILEVER NV	60.72	0	11	12
UNILEVER NV	60.99	58	3,221	3,515
UNILEVER PLC	61.97	0	10	12
UNILEVER PLC	62.29	127	6,317	7,936
UNION PACIFIC CORP	169.11	43	5,112	7,256
UNIONE DI BANCHE ITALIANE SPA	2.73	28	72	75
UNIPOLSAI ASSICURAZIONI SPA	2.57	0	0	0
UNIPRES CORP	16.43	0	2	2
UNIQURE NV	78.15	0	6	16
UNISYS CORP	9.72	1	12	6
UNITED AIRLINES HOLDINGS INC	87.55	31	2,557	2,721
UNITED COMMUNITY BANKS INC/GA	28.56	0	3	3
UNITED COMMUNITY FINANCIAL COR	9.57	0	1	1
UNITED FINANCIAL BANCORP INC	14.18	0	5	6
UNITED INC/JAPAN	13.75	4	60	52
UNITED INTERNET AG	32.98	5	235	170
UNITED OVERSEAS BANK LTD	19.31	21	326	413
UNITED RENTALS INC	132.63	4	533	588
UNITED TECHNOLOGIES CORP	130.20	3	413	419
UNITED THERAPEUTICS CORP	78.06	3	384	195
UNITED URBAN INVESTMENT CORP	1,676.26	0	271	292
UNITED UTILITIES GROUP PLC	9.96	47	489	463
UNITEDHEALTH GROUP INC	244.01	78	11,425	19,143
UNITI GROUP INC	9.50	20	216	187
UNITIKA LTD	3.58	2	15	6
UNIVERSAL HEALTH SERVICES INC	130.39	6	801	830
UNIZO HOLDINGS CO LTD	17.12	4	79	65
UNUM GROUP	33.55	2	55	54
UPM-KYMMENE OYJ	26.61	28	744	749
URBAN EDGE PROPERTIES	17.33	1	25	24
URBAN OUTFITTERS INC	22.75	4	102	86
US BANCORP	52.40	42	2,153	2,201
US FOODS HOLDING CORP	35.76	30	958	1,066
USANA HEALTH SCIENCES INC	79.43	0	6	8
V TECHNOLOGY CO LTD	45.67	4	201	164
VAIL RESORTS INC	223.18	2	548	521
VALEO SA	32.57	0	5	3
VALERO ENERGY CORP	85.61	40	3,253	3,418
VALVOLINE INC	19.53	3	71	66
VAREX IMAGING CORP	30.65	0	3	3
VARIAN MEDICAL SYSTEMS INC	136.13	1	109	109
VECTURA GROUP PLC	1.10	13	21	14
VEEVA SYSTEMS INC	162.11	27	3,990	4,342
VENTAS INC	68.35	21	1,285	1,432
VEOLIA ENVIRONNEMENT SA	24.39	6	153	152
VEONEER INC	17.25	1	52	24
VERBUND AG	52.38	5	242	264

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
VERISIGN INC	209.16	95	10,607	19,937
VERISK ANALYTICS INC	146.46	12	1,401	1,735
VERIZON COMMUNICATIONS INC	57.13	232	13,080	13,242
VERSUM MATERIALS INC	51.58	4	90	211
VERTEX PHARMACEUTICALS INC	183.38	24	3,815	4,419
VESTAS WIND SYSTEMS A/S	86.51	19	1,631	1,655
VF CORP	87.35	52	4,045	4,555
VIASAT INC	80.82	0	6	8
VIAMI SOLUTIONS INC	13.29	0	2	3
VICI PROPERTIES INC	22.04	8	186	185
VICINITY CENTRES	1.72	15	26	25
VICOR CORP	31.05	0	3	3
VICTREX PLC	27.54	2	51	44
VIENNA INSURANCE GROUP AG WIEN	25.68	0	10	12
VIFOR PHARMA AG	144.67	4	574	510
VINCI SA	102.56	18	1,659	1,859
VIRNETX HOLDING CORP	6.21	0	1	1
VISA INC	173.55	168	21,164	29,131
VISCOFAN SA	52.45	0	12	11
VISTA OUTDOOR INC	8.88	0	3	4
VISTEON CORP	58.58	0	14	12
VISTRA ENERGY CORP	22.64	52	1,216	1,185
VITAMIN SHOPPE INC	3.94	1	6	2
VIVENDI SA	27.57	13	368	369
VIVEVE MEDICAL INC	0.38	0	0	0
VMWARE INC	167.21	11	1,354	1,825
VOCUS GROUP LTD	2.29	10	29	22
VODAFONE GROUP PLC	1.65	445	1,184	733
VODAFONE GROUP PLC	16.33	11	185	185
VOLKSWAGEN AG	168.79	1	138	137
VOLKSWAGEN AG	172.13	1	118	94
VOLTAGE INC	4.72	1	8	3
VOLVO AB	15.88	0	5	5
VONOVIA SE	47.83	137	6,433	6,545
VORNADO REALTY TRUST	64.10	0	20	19
VOSSLOH AG	36.78	1	81	41
VOYA FINANCIAL INC	55.30	44	1,895	2,411
VULCAN MATERIALS CO	137.31	0	31	31
W&T OFFSHORE INC	4.96	0	3	2
WABASH NATIONAL CORP	16.27	0	2	2
WABTEC CORP	71.76	14	1,030	1,036
WACKER CHEMIE AG	79.24	0	9	5
WALGREENS BOOTS ALLIANCE INC	54.67	50	3,168	2,724
WALLENIUS WILHELMSSEN ASA	2.97	0	0	0
WALMART INC	110.49	157	13,766	17,368
WALT DISNEY CO/THE	139.64	21	2,181	2,876
WANT WANT CHINA HOLDINGS LTD	0.81	2	2	2
WARABEYA NICHIO HOLDINGS CO L	15.42	2	35	31
WARRIOR MET COAL INC	26.12	1	15	16

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
WASHINGTON FEDERAL INC	34.93	0	3	3
WASTE CONNECTIONS INC	95.58	0	7	10
WASTE CONNECTIONS INC	95.73	4	220	373
WASTE MANAGEMENT INC	115.37	67	4,721	7,682
WATERS CORP	215.24	0	84	86
WAYFAIR INC	146.00	6	769	880
WEBJET LTD	9.54	7	89	69
WEBSTER FINANCIAL CORP	47.77	0	7	5
WEC ENERGY GROUP INC	83.37	11	844	924
WEIGHT WATCHERS INTERNATIONAL	19.10	51	1,043	972
WEINGARTEN REALTY INVESTORS	27.42	0	8	8
WELLCARE HEALTH PLANS INC	285.07	3	708	832
WELLS FARGO & CO	47.32	251	12,296	11,894
WELLTOWER INC	81.53	32	2,407	2,646
WERNER ENTERPRISES INC	31.08	1	19	19
WESBANCO INC	38.55	1	19	19
WESCO INTERNATIONAL INC	50.65	0	6	5
WESFARMERS LTD	25.38	37	1,041	935
WEST FRASER TIMBER CO LTD	45.69	7	323	302
WEST HOLDINGS CORP	10.12	1	10	8
WEST JAPAN RAILWAY CO	80.90	13	909	1,044
WESTERN UNION CO/THE	19.89	8	160	165
WESTGOLD RESOURCES LTD	1.32	0	0	0
WESTON (GEORGE) LTD	76.04	8	679	633
WESTPAC BANKING CORP	19.90	0	6	6
WESTPAC BANKING CORP	19.93	0	2	2
WESTROCK CO	36.47	4	188	150
WEYERHAEUSER CO	26.34	19	554	503
WH GROUP LTD	1.01	2,586	2,542	2,621
WH SMITH PLC	25.07	12	269	307
WHARF HOLDINGS LTD/THE	2.65	145	477	384
WHARF REAL ESTATE INVESTMENT C	7.05	49	345	345
WHELOCK & CO LTD	7.17	111	608	796
WHITEHAVEN COAL LTD	2.57	18	72	47
WIENERBERGER AG	24.71	0	2	3
WILLIAM HILL PLC	1.97	22	52	44
WILLIS TOWERS WATSON PLC	191.54	3	511	632
WILMAR INTERNATIONAL LTD	2.73	0	1	1
WINTRUST FINANCIAL CORP	73.16	0	11	11
WIRECARD AG	168.60	46	8,288	7,681
WIX.COM LTD	142.10	3	279	357
WIZZ AIR HOLDINGS PLC	43.39	1	32	32
WM MORRISON SUPERMARKETS PLC	2.56	499	1,294	1,279
WOLTERS KLUWER NV	72.91	65	3,828	4,731
WOODSIDE PETROLEUM LTD	25.52	66	1,698	1,673
WOOLWORTHS GROUP LTD	23.32	11	220	245
WORKDAY INC	205.58	2	372	394
WORKIVA INC	58.09	0	17	17
WORLDLINE SA/FRANCE	72.88	1	38	43

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
WORLDPAY INC	122.55	1	148	147
WORLEYPARSONS LTD	10.32	2	20	23
WORTHINGTON INDUSTRIES INC	40.26	0	5	4
WP CAREY INC	81.18	4	293	305
WPP PLC	12.60	26	587	324
WR BERKLEY CORP	65.93	0	8	13
WR GRACE & CO	76.11	8	560	571
WRIGHT MEDICAL GROUP NV	29.82	2	72	72
WSFS FINANCIAL CORP	41.30	2	99	95
WUXI BIOLOGICS CAYMAN INC	8.98	1	5	4
WW GRAINGER INC	268.23	9	2,566	2,331
WYNDHAM HOTELS & RESORTS INC	55.74	8	363	424
WYNN MACAU LTD	2.24	190	579	425
WYNN RESORTS LTD	123.99	1	130	136
XCEL ENERGY INC	59.49	14	764	808
XEROX CORP	35.41	2	75	81
XILINX INC	117.92	75	9,035	8,841
XPERI CORP	20.59	1	33	27
YAHOO JAPAN CORP	2.93	1	2	2
YAMAGUCHI FINANCIAL GROUP INC	6.83	6	81	41
YAMAHA CORP	47.52	9	424	418
YAMAICHI ELECTRONICS CO LTD	8.97	2	9	14
YAMATO HOLDINGS CO LTD	20.34	9	201	175
YAMAZAKI BAKING CO LTD	15.12	0	6	5
YANDEX NV	38.00	0	4	4
YANGZIJIANG SHIPBUILDING HOLDI	1.13	3,490	3,594	3,947
YARA INTERNATIONAL ASA	48.53	6	263	305
YELP INC	34.18	35	1,273	1,213
YEXT INC	20.09	1	32	28
YOKOGAWA BRIDGE HOLDINGS CORP	16.10	1	11	10
YOKOGAWA ELECTRIC CORP	19.60	2	32	33
YOROZU CORP	12.54	3	42	34
YRC WORLDWIDE INC	4.03	0	0	0
YUE YUEN INDUSTRIAL HOLDINGS L	2.74	265	759	726
YUM CHINA HOLDINGS INC	46.20	1	46	55
YUM! BRANDS INC	110.67	47	3,577	5,197
ZEBRA TECHNOLOGIES CORP	209.49	0	8	21
ZILLOW GROUP INC	45.76	0	6	9
ZILLOW GROUP INC	46.39	0	3	5
ZIMMER BIOMET HOLDINGS INC	117.74	1	137	141
ZIONS BANCORP NA	45.98	0	5	5
ZOETIS INC	113.49	13	1,226	1,436
ZOGENIX INC	47.78	0	16	18
ZOJIRUSHI CORP	10.66	0	2	2
ZUORA INC	15.32	2	26	28
ZURICH INSURANCE GROUP AG	348.62	21	6,323	7,357

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
ZYNGA INC	6.13	205	761	1,255
Public Global Equity		183,491	\$ 4,197,571	\$ 5,233,343
Public Global Equity Receivable				3,158
Total Public Global Equity			\$	5,236,501

Issuer	Price	Shares	Cost	Market Value
US Equity				
2U INC	\$ 37.64	150	\$ 10,929	\$ 5,646
ABM INDUSTRIES INC	40.00	69	2,556	2,740
ACADIA HEALTHCARE CO INC	34.95	39	1,400	1,346
ACCELERATE DIAGNOSTICS INC	22.88	99	2,080	2,257
ACCELERON PHARMA INC	41.08	40	1,629	1,627
ACLARIS THERAPEUTICS INC	2.19	97	1,530	212
ADDUS HOMECARE CORP	74.95	25	595	1,844
ADTALEM GLOBAL EDUCATION INC	45.05	124	5,072	5,609
ADVANCED ENERGY INDUSTRIES INC	56.27	39	2,031	2,211
AEROJET ROCKETDYNE HOLDINGS IN	44.77	48	1,168	2,149
AIMMUNE THERAPEUTICS INC	20.82	29	690	608
AIR TRANSPORT SERVICES GROUP I	24.40	95	1,221	2,323
ALBANY INTERNATIONAL CORP	82.91	83	6,152	6,882
ALLEGHENY TECHNOLOGIES INC	25.20	97	1,910	2,439
ALLETE INC	83.21	40	2,184	3,323
AMC ENTERTAINMENT HOLDINGS INC	9.33	172	2,485	1,603
AMEDISYS INC	121.41	11	537	1,323
AMERICAN CAMPUS COMMUNITIES IN	46.16	21	949	951
AMERICAN EAGLE OUTFITTERS INC	16.90	125	2,140	2,107
AMERICAN EQUITY INVESTMENT LIF	27.16	92	2,145	2,507
AMERICAN WOODMARK CORP	84.62	29	2,422	2,486
AMERICOLD REALTY TRUST	32.42	77	2,010	2,506
ANIXTER INTERNATIONAL INC	59.71	53	3,511	3,154
ANTARES PHARMA INC	3.29	287	911	945
APERGY CORP	33.54	8	325	282
APOLLO GLOBAL MANAGEMENT LLC	34.30	300	8,911	10,290
APPLIED INDUSTRIAL TECHNOLOGIE	61.53	45	2,614	2,775
ARDMORE SHIPPING CORP	8.15	130	1,376	1,058
ARGENX SE	141.58	16	1,291	2,223
ARMADA HOFFLER PROPERTIES INC	16.55	172	2,030	2,852
ARMSTRONG WORLD INDUSTRIES INC	97.20	30	1,768	2,945
ARRAY BIOPHARMA INC	46.33	60	900	2,775
ASBURY AUTOMOTIVE GROUP INC	84.34	42	3,076	3,571
ASCENDIS PHARMA A/S	115.15	11	778	1,301
ASHLAND GLOBAL HOLDINGS INC	79.97	28	1,669	2,244
ASSURANT INC	106.38	24	1,962	2,574
ASTRONICS CORP	40.22	8	273	311
AURINIA PHARMACEUTICALS INC	6.58	167	1,097	1,097
AVALARA INC	72.20	98	6,728	7,040
AVAYA HOLDINGS CORP	11.91	71	1,254	843
AZZ INC	46.02	41	1,899	1,895
BANCORPSOUTH BANK	29.04	150	3,843	4,349
BANK OF NT BUTTERFIELD & SON L	33.96	61	1,761	2,061
BANK OZK	30.09	75	2,730	2,248

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
BANKUNITED INC	33.74	173	5,889	5,853
BEACON ROOFING SUPPLY INC	36.72	70	2,339	2,588
BERKSHIRE HILLS BANCORP INC	31.39	117	3,522	3,677
BIOSCRIP INC	2.60	317	639	824
BJ'S WHOLESALE CLUB HOLDINGS I	26.40	98	2,619	2,584
BLACK HILLS CORP	78.17	36	1,867	2,836
BLUEPRINT MEDICINES CORP	94.33	88	4,892	8,263
BOINGO WIRELESS INC	17.97	54	1,632	972
BOOZ ALLEN HAMILTON HOLDING CO	66.21	92	3,591	6,058
BOSTON PRIVATE FINANCIAL HOLDI	12.07	149	1,810	1,804
BRIDGEWATER BANCSHARES INC	11.54	136	1,762	1,571
BRIGHAM MINERALS INC	21.46	88	1,797	1,895
BRIGHT HORIZONS FAMILY SOLUTIO	150.87	45	4,408	6,789
BRIGHTSPHERE INVESTMENT GROUP	11.41	63	918	716
BROADRIDGE FINANCIAL SOLUTIONS	127.68	35	3,597	4,469
BROOKDALE SENIOR LIVING INC	7.21	229	2,098	1,649
BROOKS AUTOMATION INC	38.75	57	1,855	2,209
BRUKER CORP	49.95	45	979	2,230
BRUNSWICK CORP/DE	45.89	99	4,581	4,539
BUILDERS FIRSTSOURCE INC	16.86	141	1,999	2,373
BWX TECHNOLOGIES INC	52.10	135	6,811	7,034
CACTUS INC	33.12	66	1,764	2,196
CALERES INC	19.92	103	2,707	2,056
CALLON PETROLEUM CO	6.59	469	5,319	3,093
CAMBREX CORP	46.81	51	2,619	2,369
CAMDEN NATIONAL CORP	45.87	70	2,291	3,190
CARPENTER TECHNOLOGY CORP	47.98	52	2,424	2,486
CARRIAGE SERVICES INC	19.01	57	1,171	1,087
CARROLS RESTAURANT GROUP INC	9.03	90	524	813
CARTER'S INC	97.54	24	2,338	2,351
CATALENT INC	54.21	45	1,063	2,429
CBIZ INC	19.59	160	2,011	3,132
CENTENNIAL RESOURCE DEVELOPMEN	7.59	151	1,794	1,143
CENTERSTATE BANK CORP	23.03	167	4,504	3,847
CENTURY COMMUNITIES INC	26.58	65	1,778	1,727
CHARLES RIVER LABORATORIES INT	141.90	60	7,240	8,514
CHEMICAL FINANCIAL CORP	41.11	67	3,215	2,738
CHILDREN'S PLACE INC/THE	95.38	17	1,712	1,643
CINEMARK HOLDINGS INC	36.10	54	1,907	1,935
CLEAN HARBORS INC	71.10	161	10,419	11,476
CLEVELAND-CLIFFS INC	10.67	99	1,058	1,060
COGENT COMMUNICATIONS HOLDINGS	59.36	41	1,102	2,432
COLUMBUS MCKINNON CORP/NY	41.97	70	2,745	2,931
COMMERCIAL METALS CO	17.85	112	2,589	1,997
COMMVAULT SYSTEMS INC	49.62	22	1,251	1,072
CONDUENT INC	9.59	212	2,821	2,029
CONMED CORP	85.57	32	1,366	2,701
CONTINENTAL BUILDING PRODUCTS	26.57	100	2,874	2,661
COOPER TIRE & RUBBER CO	31.55	76	2,432	2,405
CORECIVIC INC	20.76	94	2,331	1,960
CORESITE REALTY CORP	115.17	23	1,633	2,659
CORNERSTONE ONDEMAND INC	57.93	44	1,609	2,520

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
COUPA SOFTWARE INC	126.61	55	3,846	6,964
COUSINS PROPERTIES INC	36.17	79	2,670	2,861
COWEN INC	17.19	142	2,356	2,438
CREE INC	56.18	16	914	876
CRISPR THERAPEUTICS AG	47.10	13	599	593
CRYOPORT INC	18.32	33	368	605
CURTISS-WRIGHT CORP	127.13	18	1,995	2,345
CUSHMAN & WAKEFIELD PLC	17.88	485	8,793	8,672
DANA INC	19.94	99	1,901	1,975
DARLING INGREDIENTS INC	19.89	108	1,572	2,146
DELEK US HOLDINGS INC	40.52	120	4,484	4,850
DENNY'S CORP	20.53	77	340	1,587
DESIGNER BRANDS INC	19.17	83	1,799	1,599
DIAMONDROCK HOSPITALITY CO	10.34	226	2,222	2,337
DICK'S SPORTING GOODS INC	34.63	65	2,350	2,254
DIODES INC	36.37	69	1,787	2,522
DOUGLAS DYNAMICS INC	39.79	54	2,143	2,157
DULUTH HOLDINGS INC	13.59	82	1,384	1,117
DYCOM INDUSTRIES INC	58.87	56	4,209	3,303
EAGLE BANCORP INC	54.13	61	3,246	3,317
EAGLE MATERIALS INC	92.70	9	662	788
EBIX INC	50.22	39	1,506	1,933
EHEALTH INC	86.10	24	1,514	2,045
ELDORADO RESORTS INC	46.07	22	747	1,027
ELEMENT SOLUTIONS INC	10.34	146	1,711	1,506
EMCOR GROUP INC	88.10	54	2,680	4,723
EMPLOYERS HOLDINGS INC	42.27	19	600	803
ENCOMPASS HEALTH CORP	63.36	197	12,945	12,482
ENDO INTERNATIONAL PLC	4.12	118	1,979	486
ENERGIZER HOLDINGS INC	38.64	51	2,948	1,982
ENERSYS	68.50	46	3,374	3,136
ENPRO INDUSTRIES INC	63.84	39	2,930	2,496
ENSIGN GROUP INC/THE	56.92	23	1,291	1,332
ENTEGRIS INC	37.32	59	2,010	2,217
EQUITY BANCSHARES INC	26.66	83	2,893	2,200
ESSENT GROUP LTD	46.99	53	1,412	2,467
EURONET WORLDWIDE INC	168.24	13	1,083	2,153
EVERBRIDGE INC	89.42	33	1,350	2,924
EXLSERVICE HOLDINGS INC	66.13	49	2,455	3,207
EXTREME NETWORKS INC	6.47	149	1,348	961
FEDERAL SIGNAL CORP	26.75	94	1,634	2,520
FERRO CORP	15.80	87	1,498	1,373
FERROGLOBE PLC CONTRA	-	69	-	0
FIRST CITIZENS BANCSHARES INC/	450.27	4	1,094	1,869
FIRST COMMONWEALTH FINANCIAL C	13.47	210	2,114	2,834
FIRST FINANCIAL BANCORP	24.22	79	1,345	1,915
FIRST FOUNDATION INC	13.44	155	2,337	2,086
FIRST INDUSTRIAL REALTY TRUST	36.74	114	2,930	4,194
FIRST NORTHWEST BANCORP	16.25	82	1,004	1,328
FIRSTCASH INC	100.02	24	1,905	2,410
FLEX LTD	9.57	231	1,942	2,213
FLY LEASING LTD	17.41	54	775	935

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
FNB CORP/PA	11.77	467	5,754	5,495
FORMFACTOR INC	15.67	261	3,643	4,094
FTI CONSULTING INC	83.84	17	1,145	1,392
FULTON FINANCIAL CORP	16.37	199	3,508	3,253
GASLOG LTD	14.40	47	855	677
GENESEE & WYOMING INC	100.00	23	1,670	2,316
GIBRALTAR INDUSTRIES INC	40.36	36	1,344	1,441
G-III APPAREL GROUP LTD	29.42	101	2,759	2,966
GLAUKOS CORP	75.40	26	856	1,991
GLOBAL BLOOD THERAPEUTICS INC	52.60	50	1,862	2,630
GLYCOMIMETICS INC	11.92	113	1,431	1,348
GOLAR LNG LTD	18.48	132	3,683	2,433
GRAND CANYON EDUCATION INC	117.02	98	9,658	11,515
GRAPHIC PACKAGING HOLDING CO	13.98	140	1,544	1,964
GRAY TELEVISION INC	16.39	143	1,917	2,340
GREAT WESTERN BANCORP INC	35.72	191	6,077	6,827
GREIF INC	32.55	24	926	767
GW PHARMACEUTICALS PLC	172.39	6	821	1,017
HANCOCK WHITNEY CORP	40.06	72	3,434	2,899
HANMI FINANCIAL CORP	22.27	90	1,963	1,998
HANOVER INSURANCE GROUP INC/TH	128.30	33	3,643	4,226
HARSCO CORP	27.44	91	2,181	2,486
HEALTHCARE REALTY TRUST INC	31.32	67	2,023	2,095
HEALTHCARE SERVICES GROUP INC	30.32	105	4,312	3,171
HELEN OF TROY LTD	130.59	27	2,616	3,550
HELIX ENERGY SOLUTIONS GROUP I	8.63	634	5,569	5,474
HERITAGE-CRYSTAL CLEAN INC	26.31	75	1,970	1,963
HESKA CORP	85.17	17	1,233	1,405
HILTON GRAND VACATIONS INC	31.82	56	1,853	1,769
HUB GROUP INC	41.98	49	2,109	2,050
IBERIABANK CORP	75.85	79	6,178	5,981
ICF INTERNATIONAL INC	72.80	17	686	1,267
IMMUNOMEDICS INC	13.87	68	1,171	947
INGEVITY CORP	105.17	28	2,643	2,936
INNOSPEC INC	91.24	22	1,587	2,026
INPHI CORP	50.10	51	2,119	2,575
INSTALLED BUILDING PRODUCTS IN	59.22	47	2,139	2,754
ITT INC	65.48	56	2,239	3,667
J2 GLOBAL INC	88.89	85	7,298	7,556
JACK HENRY & ASSOCIATES INC	133.92	100	12,454	13,392
JACK IN THE BOX INC	81.39	33	2,906	2,694
JAMES RIVER GROUP HOLDINGS LTD	46.90	38	1,327	1,792
JOHN BEAN TECHNOLOGIES CORP	121.13	22	2,254	2,641
KALVISTA PHARMACEUTICALS INC	22.15	40	1,068	882
KBR INC	24.94	138	2,762	3,438
KEMPER CORP	86.29	55	3,446	4,789
KITE REALTY GROUP TRUST	15.13	151	3,208	2,282
KNOWLES CORP	18.31	99	1,781	1,810
KRATOS DEFENSE & SECURITY SOLU	22.89	71	895	1,630
LANCASTER COLONY CORP	148.60	12	1,935	1,806
LAUREATE EDUCATION INC	15.71	167	2,376	2,627
LEGACYTEXAS FINANCIAL GROUP IN	40.71	69	2,810	2,819
LHC GROUP INC	119.58	58	4,807	6,888

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
LIONS GATE ENTERTAINMENT CORP	11.61	129	1,896	1,499
LIVEPERSON INC	28.04	70	1,223	1,957
LIVERAMP HOLDINGS INC	48.48	16	968	790
LOUISIANA-PACIFIC CORP	26.22	111	2,830	2,898
LPL FINANCIAL HOLDINGS INC	81.57	34	1,177	2,748
LUMENTUM HOLDINGS INC	53.41	89	4,667	4,767
MACK-CALI REALTY CORP	23.29	237	4,844	5,515
MAGELLAN HEALTH INC	74.23	58	3,422	4,276
MAGNOLIA OIL & GAS CORP	11.58	380	4,920	4,396
MARTEN TRANSPORT LTD	18.15	63	1,234	1,141
MATADOR RESOURCES CO	19.88	96	1,839	1,903
MEDICAL PROPERTIES TRUST INC	17.44	157	2,228	2,731
MERIT MEDICAL SYSTEMS INC	59.56	35	536	2,076
MERITAGE HOMES CORP	51.34	65	2,741	3,352
MERITOR INC	24.25	209	3,815	5,070
MGIC INVESTMENT CORP	13.14	273	3,737	3,586
MIDLAND STATES BANCORP INC	26.72	65	1,700	1,747
MILACRON HOLDINGS CORP	13.80	149	2,050	2,057
MIMECAST LTD	46.71	40	1,390	1,845
MIRATI THERAPEUTICS INC	103.00	15	1,086	1,555
MKS INSTRUMENTS INC	77.89	95	7,477	7,400
MONOLITHIC POWER SYSTEMS INC	135.78	8	293	1,136
MORPHOSYS AG	24.14	94	2,457	2,262
MRC GLOBAL INC	17.12	148	2,822	2,529
MSG NETWORKS INC	20.74	54	1,342	1,114
MULTI-COLOR CORP	49.97	9	415	433
MURPHY USA INC	84.03	17	1,349	1,403
NATIONAL VISION HOLDINGS INC	30.73	300	12,140	9,219
NATIONAL WESTERN LIFE GROUP IN	257.00	5	1,103	1,157
NATURAL GAS SERVICES GROUP INC	16.50	58	1,221	960
NCR CORP	31.10	92	2,779	2,859
NEUROCRINE BIOSCIENCES INC	84.43	26	575	2,154
NEW JERSEY RESOURCES CORP	49.77	127	4,291	6,313
NEW RELIC INC	86.51	11	938	934
NMI HOLDINGS INC	28.39	53	558	1,516
NORTHWEST NATURAL HOLDING CO	69.50	11	758	778
NORTHWESTERN CORP	72.15	39	2,082	2,792
NUANCE COMMUNICATIONS INC	15.97	162	2,541	2,582
OASIS PETROLEUM INC	5.68	358	2,937	2,036
OCEANFIRST FINANCIAL CORP	24.85	136	3,636	3,374
ONE GAS INC	90.30	60	4,269	5,395
ORION ENGINEERED CARBONS SA	21.41	103	2,941	2,212
ORRSTOWN FINANCIAL SERVICES IN	21.99	31	615	685
ORTHOFIX MEDICAL INC	52.88	35	1,952	1,857
ORTHOPEDIATRICS CORP	39.00	23	335	893
OUTFRONT MEDIA INC	25.79	71	1,413	1,829
OXFORD INDUSTRIES INC	75.80	24	1,587	1,789
PACWEST BANCORP	38.83	72	2,489	2,777
PAYLOCITY HOLDING CORP	93.82	100	8,997	9,335
PB BANCORP INC	11.85	57	506	674

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Price	Shares	Cost	Market Value
PDC ENERGY INC	36.06	103	3,614	3,704
PEGASYSTEMS INC	71.21	22	1,382	1,595
PENN NATIONAL GAMING INC	19.26	179	3,366	3,454
PENNSYLVANIA REAL ESTATE INVES	6.50	173	2,721	1,127
PEOPLE'S UNITED FINANCIAL INC	16.78	161	2,581	2,707
PERFORMANCE FOOD GROUP CO	40.03	149	4,744	5,952
PERSPECTA INC	23.41	77	1,895	1,802
PHYSICIANS REALTY TRUST	17.44	134	2,252	2,340
PINNACLE FINANCIAL PARTNERS IN	57.48	34	2,085	1,926
PIPER JAFFRAY COS	74.27	26	1,887	1,909
PLEXUS CORP	58.37	38	1,660	2,242
PLURALSIGHT INC	30.32	285	8,752	8,641
PNM RESOURCES INC	50.91	69	1,805	3,498
POLARITYTE INC	5.70	37	1,304	208
PORTLAND GENERAL ELECTRIC CO	54.17	48	2,106	2,596
POST HOLDINGS INC	103.97	17	1,427	1,799
POTLATCHDELTIC CORP	38.98	47	1,788	1,832
PRIMERICA INC	119.95	25	1,579	2,946
PROPETRO HOLDING CORP	20.70	72	1,242	1,480
PROSPERITY BANCSHARES INC	-	-	-	-
R1 RCM INC	12.58	123	1,325	1,541
RADNET INC	13.79	162	2,210	2,235
RBC BEARINGS INC	166.81	13	1,811	2,202
REGAL BELOIT CORP	81.71	34	2,691	2,742
REXFORD INDUSTRIAL REALTY INC	40.37	70	2,125	2,834
RINGCENTRAL INC	114.92	18	497	2,023
RLI CORP	85.71	35	1,557	3,020
SABRA HEALTH CARE REIT INC	19.69	99	1,940	1,953
SAGE THERAPEUTICS INC	183.09	30	5,201	5,493
SAIA INC	64.67	46	1,888	2,950
SAILPOINT TECHNOLOGIES HOLDING	20.04	82	1,989	1,643
SANDERSON FARMS INC	136.56	17	2,112	2,302
SANMINA CORP	30.28	78	2,237	2,367
SAREPTA THERAPEUTICS INC	151.95	80	8,600	12,141
SCOTTS MIRACLE-GRO CO/THE	98.50	20	1,536	1,931
SELECT MEDICAL HOLDINGS CORP	15.87	186	2,898	2,955
SEMTECH CORP	48.05	36	1,852	1,735
SERVICE CORP INTERNATIONAL/US	46.78	14	254	644
SERVICEMASTER GLOBAL HOLDINGS	52.09	31	756	1,610
SITE CENTERS CORP	13.24	209	4,155	2,769
SKYWEST INC	60.67	62	1,610	3,746
SOLARIS OILFIELD INFRASTRUCTUR	14.98	134	2,080	2,012
SOUTH JERSEY INDUSTRIES INC	33.73	124	3,623	4,175
SOUTHWEST GAS HOLDINGS INC	89.62	44	2,964	3,949
SPIRIT REALTY CAPITAL INC	42.66	59	2,434	2,508
STAG INDUSTRIAL INC	30.24	113	3,046	3,432
STERLING BANCORP/DE	21.28	291	5,599	6,185
STEVEN MADDEN LTD	33.95	86	1,960	2,915
STIFEL FINANCIAL CORP	59.06	69	2,291	4,079

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Price	Shares	Cost	Market Value
STORE CAPITAL CORP	33.19	59	1,350	1,971
STRATEGIC EDUCATION INC	178.00	8	917	1,371
SUMMIT HOTEL PROPERTIES INC	11.47	200	2,979	2,299
SUNOPTA INC	3.29	152	1,131	500
SUNSTONE HOTEL INVESTORS INC	13.71	154	1,413	2,109
SYNEOS HEALTH INC	51.09	41	2,007	2,086
SYNNEX CORP	98.40	17	1,587	1,692
SYNOVUS FINANCIAL CORP	35.00	88	2,328	3,091
TAYLOR MORRISON HOME CORP	20.96	104	2,261	2,180
TEAM INC	15.32	110	1,832	1,680
TEGNA INC	-	-	-	-
TERRENO REALTY CORP	49.04	27	1,183	1,300
TEXAS ROADHOUSE INC	53.67	34	2,097	1,830
TIMKEN CO/THE	51.34	38	1,673	1,930
TOPBUILD CORP	82.76	39	1,887	3,211
TRANSUNION	73.51	180	10,302	13,232
TREEHOUSE FOODS INC	54.10	36	2,095	1,921
TREX CO INC	71.70	20	1,380	1,456
TRIUMPH GROUP INC	22.90	103	1,876	2,369
TTM TECHNOLOGIES INC	10.20	362	5,252	3,694
TYLER TECHNOLOGIES INC	216.02	42	8,868	9,073
UNIQURE NV	78.15	15	1,217	1,188
UNITED COMMUNITY BANKS INC/GA	28.56	180	3,668	5,138
UNIVEST FINANCIAL CORP	26.26	47	1,346	1,234
URBAN OUTFITTERS INC	22.75	68	2,146	1,542
US CONCRETE INC	49.69	48	2,250	2,362
VARONIS SYSTEMS INC	61.94	44	2,354	2,701
VERINT SYSTEMS INC	53.78	32	1,526	1,723
VIAMI SOLUTIONS INC	13.29	205	2,587	2,726
VIEWRAY INC	8.81	206	1,615	1,814
VIRTUSA CORP	44.43	59	1,902	2,633
VONAGE HOLDINGS CORP	11.33	143	1,381	1,618
WELBILT INC	16.70	142	2,348	2,370
WESCO AIRCRAFT HOLDINGS INC	11.10	175	1,836	1,939
WESTERN ALLIANCE BANCORP	44.72	128	4,947	5,721
WESTERN NEW ENGLAND BANCORP IN	9.34	84	891	788
WEX INC	208.10	59	9,761	12,278
WHITING PETROLEUM CORP	18.68	101	1,850	1,892
WINTRUST FINANCIAL CORP	73.16	24	1,785	1,770
WISDOMTREE INVESTMENTS INC	6.17	62	685	381
WNS HOLDINGS LTD	59.20	49	1,312	2,871
WOLVERINE WORLD WIDE INC	27.54	62	1,546	1,696
WORLD FUEL SERVICES CORP	35.96	49	1,727	1,777

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Issuer	Price	Shares	Cost	Market Value
WRIGHT MEDICAL GROUP NV	29.82	41	1,190	1,208
ZENDESK INC	89.03	45	3,365	4,006
ZYNGA INC	6.13	246	992	1,510
US Equity		30,709	\$ 869,392	\$ 966,965
US Equity Receivable				849
Total US Equity			\$	967,814
Total Equity Holdings			\$	10,678,027

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APPENDIX F: INFRASTRUCTURE^{1,2}

Issuer	Price	Shares	Cost	Market Value
Public Infrastructure				
ACEA SPA	19.06	5	73	93
AENA SME SA	198.49	15	2,817	3,031
AEROPORTS DE PARIS	176.74	21	4,356	3,793
AMEREN CORP	75.11	137	7,979	10,317
AMERICAN TOWER CORP	204.45	312	40,265	63,731
AMERICAN WATER WORKS CO INC	116.00	124	10,109	14,441
ANDEAVOR LOGISTICS LP	36.33	9	335	320
ANTERO MIDSTREAM CORP	11.46	13	167	151
APA GROUP	7.58	97	708	734
ASTM SPA	32.34	3	84	110
ATLANTIA SPA	26.09	36	1,035	932
ATLAS ARTERIA LTD	5.50	2,161	9,899	11,890
ATMOS ENERGY CORP	105.56	133	12,573	14,036
AUCKLAND INTERNATIONAL AIRPORT	6.62	1,155	5,528	7,642
BEIJING CAPITAL INTERNATIONAL	0.88	167	175	146
BEIJING ENTERPRISES HOLDINGS L	5.08	103	506	523
BEIJING ENTERPRISES WATER GROU	0.59	722	403	429
BROOKFIELD INFRASTRUCTURE PART	42.94	14	525	584
CELLNEX TELECOM SA	37.06	594	15,204	21,997
CENTERPOINT ENERGY INC	28.63	707	21,355	20,233
CHENIERE ENERGY INC	68.45	165	10,654	11,281
CHENIERE ENERGY PARTNERS LP	42.18	3	115	143
CHINA GAS HOLDINGS LTD	3.72	229	967	850
CHINA MERCHANTS PORT HOLDINGS	1.70	340	688	577
CHINA RESOURCES GAS GROUP LTD	4.96	97	417	481
CHINA TOWER CORP LTD	0.26	40,508	8,521	10,629
CHINA WATER AFFAIRS GROUP LTD	0.98	178	209	175
CIA DE SANEAMENTO BASICO DO ES	12.17	31	190	374
CORP AMERICA AIRPORTS SA	8.07	176	2,989	1,419
COSCO SHIPPING PORTS LTD	0.99	1,702	1,763	1,680
CROWN CASTLE INTERNATIONAL COR	130.35	319	34,085	41,626
DCP MIDSTREAM LP	29.30	9	326	249
EDISON INTERNATIONAL	67.41	265	18,837	17,834
ELIA SYSTEM OPERATOR SA/NV	73.79	2	133	152
ENABLE MIDSTREAM PARTNERS LP	13.71	5	87	73
ENAGAS SA	26.73	61	1,749	1,632
ENBRIDGE INC	36.08	0	0	0
ENBRIDGE INC	36.20	1,401	50,449	50,721
ENERGY TRANSFER LP	14.08	199	2,992	2,803
ENLINK MIDSTREAM LLC	10.09	25	256	255
ENN ENERGY HOLDINGS LTD	9.73	849	6,430	8,257
ENTERPRISE PRODUCTS PARTNERS L	28.87	121	3,189	3,482
EQM MIDSTREAM PARTNERS LP	44.68	6	312	281
EUTELSAT COMMUNICATIONS SA	18.72	103	2,337	1,936
EVERSOURCE ENERGY	75.76	92	6,692	6,932
FERROVIAL SA	25.63	1,417	30,403	36,336
FIRSTENERGY CORP	42.81	372	14,591	15,905

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Issuer	Price	Shares	Cost	Market Value
FLUGHAFEN ZURICH AG	188.51	3	660	595
FORTIS INC	39.57	40	1,303	1,599
FRAPORT AG FRANKFURT AIRPORT S	86.09	7	672	601
GENESIS ENERGY LP	21.90	10	203	215
GETLINK SE	16.05	299	3,698	4,804
GRUPO AEROPORTUARIO DEL CENTRO	48.88	5	212	225
GRUPO AEROPORTUARIO DEL PACIFI	104.31	4	414	438
GRUPO AEROPORTUARIO DEL SUREST	162.11	2	261	259
HAMBURGER HAFEN UND LOGISTIK A	26.47	3	71	86
HOLLY ENERGY PARTNERS LP	27.50	3	80	83
HONG KONG & CHINA GAS CO LTD	2.22	9,013	14,212	19,981
HYDRO ONE LIMITED	17.48	57	831	989
INFRASTRUTTURE WIRELESS ITALIA	9.83	9	68	87
INTER PIPELINE LTD	15.59	34	652	524
ITALGAS SPA	6.73	59	331	398
JAPAN AIRPORT TERMINAL CO LTD	42.65	111	4,459	4,742
JIANGSU EXPRESSWAY CO LTD	1.42	198	227	282
KEYERA CORP	25.79	578	15,568	14,894
KINDER MORGAN CANADA LTD	8.93	7	266	65
KINDER MORGAN INC/DE	20.88	154	2,759	3,218
KONINKLIJKE VOPAK NV	46.18	230	10,672	10,615
MAGELLAN MIDSTREAM PARTNERS LP	64.00	17	1,070	1,069
MPLX LP	32.19	25	762	789
NATIONAL GRID PLC	10.64	2,218	27,090	23,589
NISOURCE INC	28.80	729	18,548	20,996
NUSTAR ENERGY LP	27.14	7	156	195
ONEOK INC	68.81	34	2,381	2,319
ORSTED A/S	86.60	152	10,313	13,130
PEMBINA PIPELINE CORP	37.31	188	6,642	7,020
PHILLIPS 66 PARTNERS LP	49.35	5	218	222
PLAINS ALL AMERICAN PIPELINE L	24.35	37	811	894
PLAINS GP HOLDINGS LP	24.97	14	306	350
RED ELECTRICA CORP SA	20.86	328	6,940	6,847
SBA COMMUNICATIONS CORP	224.84	10	1,624	2,203
SEMGROUP CORP	12.00	4	97	48
SEMPRA ENERGY	137.44	347	39,616	47,739
SES SA	15.66	261	5,264	4,084
SEVERN TRENT PLC	26.06	690	19,887	17,985
SHELL MIDSTREAM PARTNERS LP	20.72	12	246	240
SHENZHEN EXPRESSWAY CO LTD	1.20	218	201	262
SNAM SPA	4.98	141	594	703
SOCIETA INIZIATIVE AUTOSTRADAL	18.57	7	101	123
SYDNEY AIRPORT	5.64	167	873	943
TALLGRASS ENERGY LP	21.11	13	260	266
TARGA RESOURCES CORP	39.26	343	13,868	13,464
TC ENERGY CORP	49.68	1,078	49,030	53,539
TC PIPELINES LP	37.62	5	126	192
TERNA RETE ELETTRICA NAZIONALE	6.38	1,453	8,700	9,269

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Issuer	Price	Shares	Cost	Market Value
TOHO GAS CO LTD	36.80	9	313	322
TOKYO GAS CO LTD	23.55	440	11,842	10,359
TOWNGAS CHINA CO LTD	0.72	291	290	209
TRANSURBAN GROUP	10.34	1,648	15,450	17,050
UNITED UTILITIES GROUP PLC	-	-	-	-
VINCI SA	102.56	268	24,984	27,497
WESTERN MIDSTREAM PARTNERS LP	30.77	18	576	565
WESTSHORE TERMINALS INVT CORP	16.82	5	97	87
WILLIAMS COS INC/THE	28.04	1,780	48,123	49,925
ZHEJIANG EXPRESSWAY CO LTD	1.05	354	275	373
Public Infrastructure Total		79,342	708,772	790,783
Public Infrastructure Receivable				3,306
Total Infrastructure			\$	794,088

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APPENDIX G: PUBLIC REAL ESTATE^{1,2}

Issuer	Base Price	Shares	Cost	Market Value
Public Real Estate				
ALEXANDER & BALDWIN INC	\$ 23.10	8	\$ 181	\$ 191
ALEXANDRIA REAL ESTATE EQUITIE	141.09	84	10,557	11,828
AMERICAN HOMES 4 RENT	24.31	61	1,299	1,493
AMERICOLD REALTY TRUST	32.42	217	5,934	7,050
AVALONBAY COMMUNITIES INC	203.18	82	15,392	16,722
BOSTON PROPERTIES INC	129.00	62	7,692	7,980
BRANDYWINE REALTY TRUST	14.32	312	4,753	4,471
BRIXMOR PROPERTY GROUP INC	17.88	469	7,900	8,393
CAMDEN PROPERTY TRUST	104.39	98	9,198	10,228
CHESAPEAKE LODGING TRUST	28.42	209	5,793	5,941
COLUMBIA PROPERTY TRUST INC	20.74	321	7,153	6,667
CORESITE REALTY CORP	115.17	9	871	1,020
CUBESMART	33.44	315	9,203	10,544
CYRUSONE INC	57.72	223	11,838	12,892
DIAMONDROCK HOSPITALITY CO	10.34	45	487	463
DIGITAL REALTY TRUST INC	117.79	2	257	257
DUKE REALTY CORP	31.61	405	12,029	12,793
EMPIRE STATE REALTY TRUST INC	14.81	529	8,058	7,836
EQUINIX INC	504.29	47	18,375	23,924
EQUITY RESIDENTIAL	75.92	270	19,437	20,481
ESSEX PROPERTY TRUST INC	291.93	26	6,960	7,658
EXTRA SPACE STORAGE INC	106.10	140	13,418	14,861
FEDERAL REALTY INVESTMENT TRUS	128.76	50	6,518	6,443
HCP INC	31.98	564	17,154	18,030
HEALTHCARE TRUST OF AMERICA IN	27.43	254	7,096	6,955
HIGHWOODS PROPERTIES INC	41.30	10	500	426
HOST HOTELS & RESORTS INC	18.22	469	8,444	8,541
INDUSTRIAL LOGISTICS PROPERTIE	20.82	22	446	452
INVITATION HOMES INC	26.73	491	12,218	13,137
IRON MOUNTAIN INC	31.30	263	9,581	8,242
JBG SMITH PROPERTIES	39.34	25	978	993
KILROY REALTY CORP	73.81	149	10,303	10,990
LIBERTY PROPERTY TRUST	50.04	29	1,293	1,429
MACERICH CO/THE	33.49	185	8,746	6,211
MACK-CALI REALTY CORP	23.29	45	1,121	1,059
MGM GROWTH PROPERTIES LLC	30.65	24	765	724
MID-AMERICA APARTMENT COMMUI	117.76	5	604	603
NATIONAL RETAIL PROPERTIES INC	53.01	19	1,003	1,007
PARK HOTELS & RESORTS INC	27.56	221	6,436	6,083
PROLOGIS INC	80.10	335	21,608	26,795
PUBLIC STORAGE	238.17	10	2,117	2,363
REALTY INCOME CORP	68.97	286	19,270	19,700
REGENCY CENTERS CORP	66.74	16	983	1,046
RETAIL OPPORTUNITY INVESTMENTS	17.13	299	5,149	5,123
RETAIL PROPERTIES OF AMERICA I	11.76	123	1,538	1,448
REXFORD INDUSTRIAL REALTY INC	40.37	15	613	620
SABRA HEALTH CARE REIT INC	19.69	244	4,838	4,812

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Base Price	Shares	Cost	Market Value
SIMON PROPERTY GROUP INC	159.76	116	20,495	18,473
STAG INDUSTRIAL INC	30.24	31	815	945
STORE CAPITAL CORP	33.19	30	792	1,009
SUN COMMUNITIES INC	128.19	125	13,103	16,027
SUNSTONE HOTEL INVESTORS INC	13.71	77	1,151	1,050
TAUBMAN CENTERS INC	40.83	26	1,401	1,081
UDR INC	44.89	19	697	853
URBAN EDGE PROPERTIES	17.33	22	498	378
VENTAS INC	68.35	344	21,137	23,480
VEREIT INC	9.01	343	2,685	3,094
VICI PROPERTIES INC	22.04	35	701	760
WELLTOWER INC	81.53	8	585	611
WP CAREY INC	81.18	156	11,319	12,657
Public Real Estate		9,421	\$ 401,485	\$ 427,346
Public Real Estate Receivable				2,165
Total Public Real Estate				\$ 429,511

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APPENDIX H: ALTERNATIVE INVESTMENTS^{1,2}

Issuer	Base Price	Shares	Cost	Market Value
Portable Alpha HF				
LIGHTHOUSE HEDGE FUNDS	\$ -	1,145,524	1,145,524	1,145,524
BLACKSTONE SAF II LP	0.09	7,403	7,403	673
BRIDGEWATER PURE ALPHA MAJOR	1,798.79	64	116,546	115,740
DE SHAW LOW BETA	2.89	220,853	274,683	637,697
GCM - LOW BETA HF	1.00	3,430	3,430	3,430
GCM - MIXED CRED HF	1.00	3,429	3,429	3,429
GS - LOW BETA HF	1.00	8,614	8,614	8,614
GSO - MIXED CRED HF	1.00	30,200	30,200	30,200
MAN ALT BETA STRATEGIES	1,214.55	179	200,000	217,494
MS-LOW BETA HF NIB	1.00	42,836	42,836	42,836
PURE ALPHA FUND II SERIES CXLI	4,136.03	118	402,158	487,273
RESERVOIR STRATEGIC PARTNERS	1.15	638	656	731
WELLINGTON ALT BETA	9.31	30,219	302,084	281,335
Portable Alpha HF		1,493,508	\$ 2,537,564	\$ 2,974,976
Private Debt				
ANGELO GORDON	\$ 1.00	6	\$ -	\$ 6
APO - PRIVATE DEBT	1.00	335,563	335,563	335,563
ARES JASPER FUND	1.00	258,548	234,653	258,548
AVENUE CAPITAL US FUNDS	1.00	8,174	-	8,174
CRESCENT MEZZANINE V LP	1.00	1,919	7,858	1,919
CRESCENT MEZZANINE VI	1.00	37,742	46,357	37,742
GATEWAY ENERGY & RESOURCES	1.00	9,500	30,000	9,500
GS - PRIVATE DEBT	1.00	117,637	117,637	117,637
GS MEZZANINE PTNR(S) V LP	1.00	1,213	-	1,213
GSO - PRIVATE DEBT	1.00	372,919	372,919	372,919
HIGHBRIDGE SANDLAPPER CREDIT	1.00	176,787	168,041	176,787
JOCASSEE PARTNERS LLC	1.00	50,000	50,000	50,000
KKR LENDING PARTNERS II LP	1.00	41,740	53,694	41,740
KKR LENDING PARTNERS III LP	1.00	75,710	72,061	75,710
KKR SPECIAL SIT US FUND II LP	1.00	115,927	105,996	115,927
MS-PRIVATE DEBT NIB	1.00	1,919	1,919	1,919
NORTHSTAR MEZZANINE PTNR V LP	1.00	18,512	18,720	18,512
OWL ROCK CAPITAL 2	1.00	195,476	200,000	195,476
OWL ROCK FIRST LIEN FUND	1.00	59,980	60,000	59,980
OWL ROCK TECH FIN CORP	1.00	25,163	25,322	25,163
SANKATY CREDIT OPP FUND V-A LP	1.00	26,870	28,558	26,870
SANKATY CREDIT OPP IV	1.00	11,349	6,242	11,349
SELENE II	1.00	36,828	-	36,828
SJC ONSHORE DIRECT LENDING	1.00	2,537	3,570	2,537
STRATEGIC CREDIT OPPORTUNITIES	1.00	33,417	33,417	33,417
WL ROSS- WHOLE LOANS (PIPP)	1.00	7,535	8,846	7,535
Private Debt		2,022,973	\$ 1,981,373	\$ 2,022,973
Private Equity				
ADVENT INTERNATIONAL GPE VII-C	\$ 1.00	36,650	\$ 27,142	\$ 36,650
APAX EUROPE VII-B LP	1.14	6,518	30,454	7,423
APAX EUROPE VIII-B LP	1.00	46,771	46,438	46,771

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Base Price	Shares	Cost	Market Value
APO - PRIVATE EQUITY	1.00	554,782	554,782	554,782
APOLLO OFFSHR PE	1.00	27,071	27,071	27,071
AQUILINE FINANCIAL SERVICES	1.00	106,532	116,950	106,532
AZALEA FUND III LP	1.00	4,469	12,171	4,469
AZALEA FUND IV LP	1.00	12,141	11,057	12,141
BC EUROPEAN CAPITAL IX	1.14	16,166	19,908	18,410
BCP V CO-INVEST I	1.00	22,048	22,048	22,048
BRIDGEPOINT EUROPE IV A	1.14	24,631	27,153	28,049
BRIDGEPOINT EUROPE V LP	1.14	78,030	72,221	88,861
BRIDGEPOINT EUROPE VI LP	1.14	3,846	5,464	4,380
BROOKFIELD CAP PTNRS IV LP	1.00	107,298	97,626	107,298
BROOKFIELD CAP PTNRS V LP	1.00	(681)	-	(681)
BCP IV Co-Invest I	1.00	21,263	21,439	21,263
CAROUSEL CAPITAL PARTNERS IV	1.00	32,389	9,865	32,389
CLAYTON DUBILIER & RICE VIII	1.00	16,678	17,323	16,678
CRESTVIEW CAPITAL PARTNERS LP	1.00	46,797	54,620	46,797
CRESTVIEW PARTNERS III LP	1.00	58,518	44,470	58,518
CVE ENDOWMENT FUND I LP	1.00	42,693	-	42,693
CVE ENDOWMENT FUND II LP	1.00	85,126	25,979	85,126
DIGITAL COLONY I	1.00	14,062	15,745	14,062
FRANCISCO PARTNERS V LP	1.00	26,639	25,129	26,639
GCM EDISTO RSIC DIRECT	1.00	27,500	27,500	27,500
GCM GROSVENOR EDISTO LP	1.00	43,466	43,466	43,466
GREEN EQUITY INVESTORS VI LP	1.00	41,306	26,923	41,306
GS - PRIVATE EQUITY	1.00	13,966	13,966	13,966
HELLMAN & FRIEDMAN IX	1.00	(107)	-	(107)
INDUSTRY VENTURE V LP	1.00	31,550	8,568	31,550
INDUSTRY VENTURES VI	1.00	12,816	16,407	12,816
INDUSTRY VENTURES VII LP	1.00	27,720	27,606	27,720
INDUSTRY VP HOLDINGS V LP	1.00	5,291	4,216	5,291
LEXINGTON CAPITAL PTNRS VII	1.00	25,555	38,079	25,555
LEXINGTON MMI II LP	1.00	16,769	22,180	16,769
MS-PRIVATE EQ NIB	1.00	156,596	156,596	156,596
OAKTREE EUROPEAN PRIN OPPT III	1.14	27,722	9,013	31,570
PACIFIC EQUITY PARTNERS V	0.70	32,301	21,361	22,667
PANTHEON EUROPE FUND V'A'L P	1.14	11,885	10,280	13,535
PANTHEON USA FUND VII LP	1.00	49,874	40,093	49,874
PAUL CAPITAL PARTNERS IX LP	1.00	21,221	42,142	21,221
PROVIDENCE EQUITY PTNRS VIII	1.00	(1,276)	-	(1,276)
PROVIDENCE SEDONA COINVEST	1.00	10,000	10,000	10,000
PROVIDENCE SEDONA COINVEST LP	1.00	11,250	11,250	11,250
PROVIDENCE STRAT GROWTH III LP	1.00	56,511	50,688	56,511
RESERVOIR CAPITAL PARTNERS	1.00	25,176	34,972	25,176
SQUARE 1 VENTURE MGMT 1 LP	1.00	246	7	246
SQUARE 1 VENTURES LP	1.00	18,541	23,891	18,541
VENTURE INVESTMENT MANAGERS LP	1.00	58,312	31,338	58,312
WARBURG PINCUS PRIVATE EQUITY	1.00	82,840	44,868	82,840
WELSH CARSON AND & STOWE XI	1.00	17,682	22,215	17,682

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2018-2019 ANNUAL INVESTMENT REPORT

Issuer	Base Price	Shares	Cost	Market Value
WLR - PRIVATE EQUITY	1.00	41,140	41,140	41,140
Private Equity		2,256,287	\$ 2,063,818	\$ 2,270,083
Private Real Estate				
APO - REAL ESTATE	\$ 1.00	50,038	\$ 50,038	\$ 50,038
ASANA PARTNERS FUND II	1.00	(222)	385	(222)
BLACKSTONE PROPERTY PARTNERS	1.00	501,940	438,416	501,940
BLACKSTONE RE PARTNERS VII LP	1.00	83,555	58,856	83,555
BROOKFIELD RE FIN FD IV LP	1.00	4,648	7,280	4,648
BROOKFIELD RE FIN FD V LP	1.00	33,831	35,473	33,831
BROOKFIELD STRAT RE III-B LP	1.00	18,067	19,866	18,067
BROOKFIELD STRATEGIC RE	1.00	48,130	30,631	48,130
BROOKFIELD STRATEGIC RE II LP	1.00	64,504	54,534	64,504
CONAGREE PARTNERS FUND II LP	1.00	18,420	25,597	18,420
CRLYLE REALTY PARTNERS VI LP	1.00	13,112	18,808	13,112
CROW HLDGS REALTY PTNRS VII LP	1.00	67,540	54,396	67,540
GREYSTAR EQUITY PARTNERS IX	1.00	128,268	126,358	128,268
GREYSTAR EQUITY PARTNERS X	1.00	21,139	21,905	21,139
GS - REAL ESTATE	1.00	627	627	627
HEITMAN CORE RE CREDIT	1.00	101,591	100,000	101,591
LONE STAR RE FUND II (US) LP	1.00	1,945	383	1,945
MORGAN STANLEY PRIME PROPERTY	1.00	702,233	651,481	702,233
MS-REAL ESTATE NIB	1.00	65,274	65,274	65,274
OAKTREE REAL ESTATE	1.00	37,700	-	37,700
OCH-ZIFF RE FUND II	1.00	11,877	12,712	11,877
TA REALTY - SC LP	1.00	261,414	244,207	261,414
THE REALTY ASSOCIATES FUND X	1.00	35,054	25,615	35,054
TORCHLIGHT DEBT IV	1.00	22,990	27,263	22,990
TORCHLIGHT DEBT OPP FD V LLC	1.00	88,001	80,000	88,001
WLR - REAL ESTATE	1.00	30,969	30,969	30,969
Private Real Estate		2,412,647	\$ 2,181,074	\$ 2,412,647
Private Infrastructure				
ACTIS LONG LIFE INFRASTR A LP	\$ 1.00	5,783	\$ 5,983	\$ 5,783
BROOKFIELD SUPER-CORE	1.00	55,464	55,174	55,464
MACQUARIE SUPER CORE INF SCSP	1.14	75,222	79,134	85,663
Private Infrastructure		136,468	\$ 140,291	\$ 146,909
Total Alternative Investments		8,321,883	\$ 8,904,120	\$ 9,827,588
GTAAs				
MORGAN STANLEY GTAAN	\$ 1.02	800,000	\$ 800,000	\$ 815,695
PINEBRIDGE GTAAN	1.01	750,000	750,000	755,292
STANDARD LIFE GTAAN	1.04	800,000	800,000	833,379
Total GTAAs		2,350,000	\$ 2,350,000	\$ 2,404,366

¹Appendices A-J were created using data as of June 30, 2019 provided by the Custodian. All figures are in U.S. Dollars.

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RETIREMENT SYSTEM INVESTMENT COMMISSION

Issuer	Base Price	Shares	Cost	Market Value
Other Opportunistic				
ANDEAVOR LOGISTICS LP	\$ 36.33	172	\$ 6,361	\$ 6,241
ANTERO MIDSTREAM CORP	11.46	384	5,246	4,397
ANTERO RESOURCES CORP	5.53	67	1,239	370
APOLLO OFFSHR OTHER OPP	1.00	70,915	70,915	70,915
CHENIERE ENERGY PARTNERS LP	42.18	167	6,716	7,031
CRESTWOOD EQUITY PARTNERS LP	35.77	1	23	25
DCP MIDSTREAM LP	29.30	188	6,380	5,511
ENABLE MIDSTREAM PARTNERS LP	13.71	451	6,475	6,186
ENERGY TRANSFER LP	14.08	2,643	40,441	37,208
ENLINK MIDSTREAM LLC	10.09	1,441	16,277	14,543
ENTERPRISE PRODUCTS PARTNERS L	28.87	1,217	34,012	35,143
ENTRUST GTAA	1.00	72,415	72,415	72,415
EQM MIDSTREAM PARTNERS LP	44.68	19	869	854
GENESIS ENERGY LP	21.90	282	6,354	6,165
HOLLY ENERGY PARTNERS LP	27.50	6	177	168
KINDER MORGAN INC/DE	20.88	501	9,588	10,450
LH-OTHER OPPORTUNISTIC	1.00	89,837	89,837	89,837
MAGELLAN MIDSTREAM PARTNERS LP	64.00	29	1,802	1,830
MPLX LP	32.19	226	7,403	7,265
NOBLE MIDSTREAM PARTNERS LP	33.26	1	17	17
NUSTAR ENERGY LP	27.14	8	199	206
ONEOK INC	68.81	224	14,818	15,407
PHILLIPS 66 PARTNERS LP	49.35	132	6,563	6,504
PLAINS ALL AMERICAN PIPELINE L	24.35	962	22,548	23,413
SHELL MIDSTREAM PARTNERS LP	20.72	313	6,272	6,481
TARGA RESOURCES CORP	39.26	650	29,090	25,515
TC PIPELINES LP	37.62	7	252	267
WESTERN MIDSTREAM PARTNERS LP	30.77	234	7,146	7,186
WILLIAMS COS INC/THE	28.04	833	22,573	23,369
WLR OTHER OPPORTUNISTIC	1.00	87,731	87,731	87,731
Total Other Opportunistic		332,052	\$ 579,736	\$ 572,652

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APPENDIX I: FUTURES^{1,2}

Futures Product	Net Contract Position	Maturity	Currency	Settle Price	Futures Multiplier	Local Currency	US Dollar	Notional Exposure
Developed International Equity								
AMSTERDAM INDEX FUTURE (EOE)	38.00	EXP JUL 19	EUR	\$ 561	200	0.88	1.14	4,855
CAC40 10 EURO FUTURE (EOP)	258.00	EXP JUL 19	EUR	5,533	10	0.88	1.14	16,257
DAX INDEX FUTURE (EUX)	39.00	EXP SEP 19	EUR	12,388	25	0.88	1.14	13,755
EURO STOXX 50 FUTURE (EUX)	370.00	EXP SEP 19	EUR	3,466	10	0.88	1.14	14,604
FTSE 100 INDEX FUTURE (ICF)	244.00	EXP SEP 19	GBP	7,369	10	0.79	1.27	22,884
FTSE/MIB INDEX FUTURE (MIL)	32.00	EXP SEP 19	EUR	21,156	5	0.88	1.14	3,855
HANG SENG INDEX FUTURE (HKG)	31.00	EXP JUL 19	HKD	28,505	50	7.81	0.13	5,655
IBEX 35 INDEX FUTURE (MFM)	40.00	EXP JUL 19	EUR	9,173	10	0.88	1.14	4,178
OMXS30 INDEX FUT (SSE)	198.00	EXP JUL 19	SEK	1,621	100	9.28	0.11	3,459
S&P/TSX 60 INDEX FUTURE (MSE)	89.00	EXP SEP 19	CAD	978	200	1.31	0.77	13,318
SPI 200 FUTURE (SFE)	84.00	EXP SEP 19	AUD	6,559	25	1.43	0.70	9,666
TOPIX INDEX FUTURE (OSE)	214.00	EXP SEP 19	JPY	1,551	10000	107.74	0.01	30,807
Developed International Equity Total								\$ 143,292
Equity Options Strategy								
S&P500 EMINI FUTURE (CME)	160.00	EXP SEP 19	USD	2,944	50	1.00	1.00	23,554
Equity Options Strategy Total								23,554
US Equity								
E-MINI RUSS 2000 FUTURE (CME)	(1,264.00)	EXP SEP 19	USD	1,567	50	1.00	1.00	(99,041)
S&P500 EMINI FUTURE (CME)	9,598.00	EXP SEP 19	USD	2,944	50	1.00	1.00	1,412,922
US Equity Total								\$ 1,313,881
Grand Total								\$ 1,480,726

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APPENDIX J: SWAPS & OPTIONS^{1,2}

Asset Class	Finance Notional	Current Notional	Unrealized G/L Since Trade
Options			
Developed International Equity			
Goldman Sachs			
Nikkei Option (JPY)	\$ 35,961	\$ 35,961	44
Merrill Lynch			
Euro Stoxx Options Proxy	79,034	79,034	(368)
FTSE Options Strategy	25,072	25,072	(161)
Morgan Stanley (CLRD)			
S&P/ASX 200 Index Proxy	9,968	9,968	(27)
Developed International Equity Total	\$ 150,035	\$ 150,035	(512)
Emerging Markets Equity			
JPMorgan			
MSCI EM Proxy	\$ -	-	20,812
Emerging Markets Equity Total	\$ -	-	20,812
Equity Options Strategy			
Morgan Stanley (CLRD)			
Custom Put Write Strategy SoCar	\$ 426,888	\$ 426,888	(309)
Equity Options Strategy Total	\$ 426,888	\$ 426,888	(309)
US Equity			
Bank of America			
Russell 2000 Options Strategy	\$ -	-	25,050
S&P 500 Option Strategy	-	-	28,980
JPMorgan			
S&P 500 Option Strategy	-	-	31,711
Morgan Stanley			
S&P 500 Option Strategy	-	-	83,401
US Equity Total	\$ -	-	169,141
Options Total	576,923	576,923	189,132
Total Return Swaps			
Core Fixed Income			
Barclays			
Barclays US Agg Proxy	\$ 319,610	\$ 319,610	17,325
Barclays US Corporate Proxy	109,005	109,005	7,724
Barclays US Securitized Proxy	494,998	494,998	10,152
Core Fixed Income Total	\$ 923,613	\$ 923,613	35,200
Emerging Markets Equity			
Merrill Lynch			
CSI 500 Net TR Proxy	\$ 24,997	\$ 24,682	(320)
Shenzhen Comp Index TR proxy	86,631	76,691	13,939
Emerging Markets Equity Total	\$ 111,628	\$ 101,373	13,619
Public Global Equity			

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Asset Class	Finance Notional	Current Notional	Unrealized G/L Since Trade
BNP Paribas			
MSCI World Swap Proxy	\$ 576,572	\$ 579,104	6,226
Public Global Equity Total	\$ 576,572	\$ 579,104	6,226
TIPS			
Barclays			
TIPS Proxy	\$ 158,556	\$ 158,556	9,018
Societe Generale			
TIPS Proxy	457,120	457,120	-
TIPS Total	\$ 615,675	\$ 615,675	9,018
US Equity			
Bank of America			
Russell 2000 Growth Swap	\$ (141,455)	\$ (141,455)	10,999
Russell 2000 Proxy	(140,024)	(140,024)	12,536
S&P 600 Swap	101,867	101,867	1,210
Goldman Sachs			
Russell 1000 Value Proxy	359,726	385,549	2,114
Russell 2500 Growth Proxy	140,003	143,250	3,068
US Equity Total	\$ 320,116	\$ 349,187	29,927
Total Return Swaps Total	2,547,604	2,568,952	93,989
Grand Total	\$ 3,124,527	\$ 3,145,875	283,121

Counterparty	Collateral
Bank of America	\$ 55,030
Barclays	10,310
BNP Paribas	(2,860)
Goldman Sachs	20,870
JPMorgan	53,770
Morgan Stanley	83,320
Merrill Lynch	(8,240)
Grand Total	\$ 212,200

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