ST. PAUL TEACHERS' RETIREMENT FUND ASSOCIATION

Annual Report

for the fiscal year ended June 30, 2016

St. Paul Teachers' Retirement Fund Association 1619 Dayton Avenue, Room 309 Saint Paul, Minnesota 55104-6276

Phone 651-642-2550 Fax 651-642-2553 www.sptrfa.org

Jill E. Schurtz
Executive Director

Christine MacDonald

Deputy Director

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Mission

 ${f P}$ rovide our members and their beneficiaries with retirement, survivor, and disability benefits as specified in law and the Association Articles and Bylaws.

Assist our members in planning a secure retirement by providing friendly, high quality, consumer oriented service, pre-retirement education and information in a professional and cost effective manner.

Invest the assets of the fund to provide the optimum return while preserving principal by controlling portfolio risk.

SPTRFA Board of Trustees

John R. Kunz, Jr. President Mike McCollor Vice President W. Matt Bogenschultz Secretary Lori Borgeson Treasurer Trustee Feryle W. Borgeson Zuki Ellis **Ex-Officio Trustee** Trustee Michael McKay Karen A. Odegard Trustee James Paddock Trustee Stephanie Pignato Trustee

SPTRFA Staff

Jill E. Schurtz
Christine MacDonald
Nancy Langer
Susan Nystrom
Rachel Pastick
Janet Williams
Tamera Zielinski

Executive Director
Deputy Director
Member Services and Outreach
Finance and Member Services
Communications and Member Services
Administrative Assistant

St. Paul Teachers' Retirement Fund Association

TRUSTEES & OFFICERS

Feryle W. Borgeson Zuki Ellis Michael McKay Karen Odegard James Paddock Stephanie Pignato

 1619 Dayton Avenue, Room 309 Saint Paul, MN 55104-6206 Phone (651) 642-2550 Fax (651) 642-2553 Online: www.sptrfa.org

Letter of Transmittal

Members of the Association:

The trustees and staff of the St. Paul Teachers' Retirement Fund Association (SPTRFA) present the Annual Financial Report for the fiscal year ended June 30, 2016, in accordance with the provisions of Minnesota Statutes § 356.20.

This report is intended to provide readers with sufficient information to make informed assessments about the organization's financial condition, fiscal activities, actuarial status, investment performance, and compliance with laws, regulations, bylaws and policies.

This is the complete Annual Report of the Association. This report is also available on the Fund's website at: www.sptrfa.org, or by request from the SPTRFA office.

Major sections included in this report and their content are as follows:

Introduction

Mission Statement, Board of Trustees, professional service relationships, and organizational structure.

Benefits

Summary information regarding Plan benefit options, calculation methods, and a history of annual retirements.

Investments

Fund investment returns, security holdings, and investment advisors under contract with the Association.

· Actuarial Valuation

Actuary's Certification Letter and various actuarial valuation sections that assess the Plan's long-term funded status and adequacy of revenues and describe relevant actuarial methods and assumptions.

• Appendix A – State Auditor's Report

The Office of the State Auditor audits the financial statements of the SPTRFA. However, their report for the most recent fiscal year was still pending completion at the time this report went to print.

The SPTRFA Board and staff are responsible for the safekeeping of the Association's assets, the prudent investment of those assets, and for ensuring that benefits are calculated properly and paid timely. Administrative costs are budgeted at a level sufficient to meet service needs of the members. We strive to be service providers of the first order and our administrative costs remain extremely efficient.

The Board and staff of the SPTRFA serve as fiduciaries on behalf of our members and their survivors and beneficiaries. We manage the assets entrusted to our care in concert with the Prudent Person Standard in Minn. Stat. § 356A.04, subd. 2, and as specified under Minn. Stat. § 356A.06, subd. 7.

With over 107 years of service to our members, the SPTRFA Board and staff remain committed to administering the affairs of the Association with the highest degree of diligence and efficiency.

Respectfully submitted,

John R. Kunz, Jr. President

W. Matt Bogenschultz

John R. Kunz, J. W. Month Bages Jori Borgson

Secretary

Lori Borgeson Treasurer Jill E. Schurtz Executive Director

Independent Professional Service Providers As of June 30, 2016

Auditor

Minnesota Office of the State Auditor

Investment Managers

Advantus Capital Management
Allianz Global Investors
Barrow, Hanley, Mewhinney & Strauss, LLC
BlackRock Institutional Trust Co.
The Boston Company Asset Management, LLC
Brandywine Global Investment Management, LLC
Corvex Management, LP

Dimensional Fund Advisors, Inc.
Dune Real Estate Partners

EnTrust Capital
Franklin Park

Guggenheim Partners Investment Management, LLC JPMorgan Investment Management, Inc. Morgan Stanley Investment Management, Inc.

North Sky Private Equity Partners IV

Parametric Portfolio Associates

RWI Ventures II

Minnesota State Board of Investment TCW Asset Management Co. Tortoise Capital Advisors UBS Realty Investors, LLC Venture Investment Advisors

Wellington Management Company, LLP

Investment Custodian

U.S. Bank

Investment Performance Consultant

Asset Consulting Group

IT Services

Sagitec Corporate Technologies

Legal Counsel

Fox Rothschild Rice, Michels & Walther, LLP

Medical Advisors

Dr. Ronald Vessey M.D. Dr. David Johnson M.D.

Organizational Chart

MEMBE	<u>ERS</u>	
ACTIVE RETIRED SI	URVIVORS	BENEFICIARIES

BOARD OF TRUSTEES

John R. Kunz, Jr., President Mike McCollor, Vice President W. Matt Bogenschultz, Secretary Lori Borgeson, Treasurer Feryle W. Borgeson, Trustee Zuki Ellis, Ex-Officio Trustee Michael McKay, Trustee Karen A. Odegard, Trustee James Paddock, Trustee Stephanie Pignato, Trustee

ADMINISTRATION

Jill E. Schurtz, Executive Director Christine MacDonald, Deputy Director Nancy Langer, Member Services and Outreach Susan Nystrom, Finance and Member Services Rachel Pastick, Communications and Member Services Janet Williams, Operations and Member Services Tamera Zielinski, Administrative Assistant

BENEFITS ADMINISTRATION

Member Services
Records Management
Member Counseling
Benefit Payments & Reporting

OPERATIONS & FINANCE

Accounting / Reporting
Budget Administration
Business Administration
Investment Mgmt. & Reporting
Information Systems
Publications
Office Payroll & Benefits

PROFESSIONAL TECHNICAL SERVICES

Actuary
Investment Managers
Investment Custodian
Investment Consultant
IT Services
Legal Counsel
Medical Advisors

GOVERNMENTAL RELATIONS

Minnesota State Auditor

Legislative Commission on

Pensions & Retirement
Minnesota Department of
Management and Budget
Minnesota Department of
Revenue
Minnesota Campaign Finance
& Public Disclosure Board
U.S. Department of Treasury

BENEFITS

Pre-Retirement Topics

Membership

SPTRFA membership is mandatory upon employment in any position requiring a license issued by the MN Department of Education for employment with Saint Paul Public Schools (SPPS), St. Paul College (SPC) – if you were first employed prior to July 1, 1995, or St. Paul Charter Schools – from July 1, 1995 through June 30, 2002. Hereinafter collectively referred to as "Saint Paul Schools."

Allowable Retirement Service Credit

A full year of retirement service credit is earned after 170 days are worked during each fiscal year. Partial years are calculated based on the ratio of days worked to 170 days. No more than one year of retirement service credit is allowable during any fiscal year.

Definition of Salary

Minnesota Statutes Chapter 354A and the Association Articles and Bylaws define salary as the entire compensation upon which member contributions are required and made.

Refund of Contributions

Coordinated and Basic members who resign from St. Paul Schools may apply for a refund of employee contributions, plus applicable interest. Basic Plan members must be either under Age 55 or ineligible for a pension to receive a refund of contributions.

Repaying a Refund of Contributions

A member who received a refund may reinstate previous retirement service credit by repaying the amount refunded plus applicable interest. Such repayments may only be made after the member has accumulated at least two years of allowable retirement service credit since the last refund was taken.

Leaves of Absence

Subject to certain requirements, members may purchase retirement service credit for the following Saint Paul Schools approved leaves of absence: Sabbatical, Military, Parental, Mobility, Medical, Family Medical.

Service Payments

Members may repay refunds or purchase SPTRFA retirement service credit by using personal savings or by transferring money from their tax-sheltered retirement accounts, such as 403(b), 457, 401(k), IRAs, or from another plan qualified under 401(a).

Beneficiary

A beneficiary is the person or persons designated to receive a refund of employee contributions, plus applicable interest, upon the death of the member if no survivor or family benefit is payable. If no valid beneficiary designation form is on file for a member, a refund of contributions plus applicable interest will be paid to the member's estate.

Marriage Dissolution

Minnesota Statutes Chapter 518 covers marriage dissolutions and requires that SPTRFA receive a copy of the petition and summons, including a copy of the affidavit of service, before any information may be released. In the event that a court order requires a division of pension benefits, a judge signed copy of a decree or domestic relations order is required. All inquires are kept confidential. Any survivor benefit coverage ends at the dissolution of marriage.

Disability Benefit

Subject to certain requirements, a disability benefit is available to vested members who become totally and permanently disabled.

Retirement Topics

Optio Coor	ement ons dinated Plan ement	Basic Plan members receive a formula benefit payable for life. An automatic spousal survivor benefit is also provided. This survivor benefit coverage does not cause a reduction in the member's benefit, but does terminate at any dissolution of marriage. At the time of retirement, Coordinated Plan members select one of the five benefit annuity options below:
C1	Member Life Only	Monthly benefit payable for life to the member, with nothing payable after the member's death.
C2	Guaranteed Refund	Reduced monthly benefit payable for life to the member. In exchange for the member's benefit reduction, after the member's death, SPTRFA pays a refund to a designated beneficiary. The refund is equal to the difference between SPTRFA preretirement member contributions less cumulative SPTRFA post-retirement benefits paid to the member prior to death.
C3	15-Year Certain	Reduced monthly benefit payable for life to the member. In exchange for the member's benefit reduction, SPTRFA continues monthly payments to a beneficiary if the member's death occurs within 15 years after retirement. Beneficiary payments end after the balance of the 15 years of SPTRFA benefit payments (member and beneficiary combined) is fulfilled.
C4	100% Joint & Survivor	Reduced monthly benefit payable for life to the member. In exchange for the member's benefit reduction, after the member's death, the member's spouse receives the same monthly benefit for life. If the spouse predeceases the member, the member's benefit would bounceback to the full, unreduced benefit amount payable under the C1 option. Survivor benefit coverage ends at any dissolution of marriage.
C5	50% Joint & Survivor	Reduced monthly benefit payable for life to the member. In exchange for the member's benefit reduction, after the member's death, the member's spouse receives 50% of the member's benefit as a monthly benefit for life. If the spouse predeceases the member, the member's benefit would bounceback to the full, unreduced benefit amount payable under the C1 option. Survivor benefit coverage ends at any dissolution of marriage.

Post-Retirement Topics

Post-Retirement SPPS Reemployment

If a retired member is reemployed by SPPS prior to Age 65, their SPTRFA monthly benefits will be reduced if the retired member earns more than \$46,000 from SPPS in any calendar year. The following year's pension will be reduced by one dollar for every three dollars in SPPS earnings over \$46,000, with the amount of the reduction forfeited to SPTRFA. After age 65, retired members have no SPPS re-employment earnings limitation. Retired members can work for any other employer without a reduction in their SPTRFA pension benefits.

90 Day Period of Separation

Newly retired members must have a complete and continuous 90 day separation from Independent School District No. 625 employment in any form. Importantly, "employment" for this purpose includes "any service provided to ISD #625 directly, as an independent contractor, or as an employee of an independent contractor."

Post-Retirement Adjustment

Post-retirement adjustments are determined annually under Minnesota statutes, which may be amended from time to time. Effective July 1, 2015, post-retirement adjustments are based on SPTRFA's funding ratio in each of the two most recent actuarial valuations, according to the following table:

Accrued Liability Funding Ratio (AVA)	Full COLA Rate
	<u>(%)</u>
Less than 80 percent	1.0
Greater than or equal to 80 percent, but less than 90 percent	2.0
Greater than or equal to 90 percent	2.5

The postretirement benefit increase applies to each eligible member on January 1 of each year. Members in retirement payment status for at least one full year will receive the full increase noted above. Members in retirement payment status after January 1st but on or before July 1st of the preceding year will receive one-half of the full increase.

Basic Plan - Summary of Tier Benefits

Vested members of the Basic Plan are eligible to receive a lifetime monthly pension based on the member's Final Average Salary (**FAS**), Years of Service (**YOS**) and a Percentage Multiplier.

The following chart provides an overview of the Tier 1 and Tier 2 retirement benefits:

Normal	Minimum		
Benefit	Age	Service	Computation of Annual Benefit

Tier 1

Unreduced	Rule of 90		
	60 65	25 5	FAS x YOS x 2.0%
Reduced	55	5	Reduced for early retirement by 0.25% for each month a member's age is under 65.
	55	25	Reduced for early retirement by 0.25% for each month a member's age is under 60.

Tier 2

Unreduced	65	5	FAS x YOS x 2.5%
Reduced	55	5	Formula reduced for early retirement by the use of actuarial tables.
			actuariai taoics.

Deferred Retirement

55	5	Annual Benefit (see above).

Formula Key:

FAS: Final Average Salary YOS: Years of Service

2.0% or 2.5%: Percentage Multiplier

Coordinated Plan - Summary of Tier Benefits

Vested members of the Coordinated Plan are eligible to receive a lifetime monthly pension based on the member's Final Average Salary (**FAS**), Years of Service (**YOS**) and a Percentage Multiplier. Members first hired after June 30, 1989 are only eligible for Tier 2 benefits.

The following chart provides an overview of the Tier 1 and Tier 2 retirement benefits effective as of July 1, 2015.

Normal	Minim	ıum			
Benefit	Age	Service	Computation of	f Annual Bene	efit
Tier 1					
Unreduced	Rule of 90 62 65	30 3	(FAS x First 1 (FAS x YOS great	+	,
Reduced	55	3	Reduced for early retireme month a member's age is u	•	r each
	Any Age	30	Reduced for early retireme month a member's age is u	•	r each
			*Tier 1 Multipliers Service Prior to July 1, 2015 Service Effective July 1, 2015	First 10 YOS 1.2% 1.4%	Over 10 YOS 1.7% 1.9%

Tier 2

Unreduced	If first employed before July 1, 1989:		
	65	3	FAS x YOS x Multiplier*
	If first emplo	yed on or	after July 1, 1989:
	65-66	3	FAS x YOS x Multiplier*
Reduced	55	3	Reduced for early retirement by the use of actuarial tables.

*Tier 2 Multipliers Service Prior to July 1, 2015 1.7% Service Effective July 1, 2015 1.9%

Deferred Retirement

55	3	Annual Benefit (see above) with augmentation ¹ .
Any Age	30	

^{1.} Augmented by 3% per year from date of resignation to January 1 after reaching Age 55, then 5% per year thereafter, if first hired prior to July 1, 2006.

Augmented by 2.5% for all years if first hired on or after July 1, 2006.

Augmentation for all members, regardless or hire date, changed to 2% as of July 1, 2012 for the portion of benefit deferral occuring after June 30, 2012.

Key

FAS: Final Average Salary YOS: Years of Service

Retirement History Record

Fiscal Year Ending	Pensions Granted	Persons On Payroll	Benefits Paid (\$)	Fiscal Year Ending	Pensions Granted	Persons On Payroll	Benefits Paid (\$)
June 1910	15	13	\$ 4,860	December 1975	52	778	\$ 3,765,322
June 1931	8	125	69,024	December 1976	77	883	4,393,513
June 1932	8	130	72,961	December 1977	63	919	5,050,507
June 1933	2	126	74,190	December 1978	48	946	5,523,548
June 1934	6	127	74,120	December 1979	40	946	6,240,309
June 1935	9	131	74,001	December 1980	47	963	6,623,804
June 1936	14	135	75,864	December 1981	47	981	7,139,037
June 1937	19	151	80,747	December 1982	61	996	7,725,617
June 1938	17	160	89,709	December 1983	72	1,042	8,555,099
June 1939	11	161	93,184	December 1984	64	1,061	9,466,664
June 1939 to				January 1985 to			
December 1939	0	158	23,870	June 1985	59	1,103	5,324,727
December 1940	71	222	170,685	June 1986	66	1,134	11,267,144
December 1941	35	246	210,257	June 1987	117	1,191	12,478,180
December 1942	27	266	234,217	June 1988	70	1,210	14,690,455
December 1943	38	286	253,031	June 1989	67	1,236	15,506,957
December 1944	34	311	282,299	June 1990	67	1,270	17,382,410
December 1945	56	350	308,113	June 1991	80	1,309	18,811,677
December 1946	51	378	337,512	June 1992	83	1,357	20,509,335
December 1947	28	387	360,571	June 1993	120	1,426	22,763,806
December 1948	42	413	375,912	June 1994	92	1,469	25,044,494
December 1949	42	441	419,618	June 1995	113	1,539	26,792,534
December 1950	30	461	450,641	June 1996	119	1,595	29,446,215
December 1951	27	476	472,670	June 1997	179	1,720	32,056,967
December 1952	28	486	508,923	June 1998	129	1,789	37,852,099
December 1953	32	487	525,959	June 1999	114	1,861	41,724,751
December 1954	10	482	529,429	June 2000	144	1,964	47,121,179
December 1955	38	509	666,994	June 2001	130	2,050	53,851,893
December 1956	46	529	750,146	June 2002	127	2,136	58,738,724
December 1957	59	560	840,883	June 2003	126	2,248	63,357,052
December 1958	41	579	1,019,502	June 2004	141	2,361	67,941.921
December 1959	30	585	1,084,506	June 2005	192	2,505	72,448,201
December 1960	38	600	1,144,380	June 2006	146	2,624	78,420,222
December 1961	39	611	1,230,715	June 2007	138	2,744	82,809,201
December 1962	49	624	1,352,779	June 2008	122	2,851	88,273,233
December 1963	42	647	1,467,461	June 2009	114	2,933	92,137,480
December 1964	33	653	1,545,252	June 2010	166	3,044	95,299,300
December 1965	40	668	1,631,554	June 2011	233 141	3,212 3,292	97,264,937
December 1966	43	676	1,770,083	June 2012			101,989,143
December 1967 December 1968	36	682	1,862,249	June 2013	166 177	3,404	103,237,869
	45 53	695 726	1,969,760	June 2014		3,529	105,742,221
December 1969	33	726 719	2,319,186 2,385,868	June 2015	178 159	3,633	108,877,858
December 1970 December 1971	31 47	719 731	2,585,868 2,522,350	June 2016	139	3,723	111,223,711
December 1971 December 1972	51	745	2,742,660				
December 1972 December 1973	36	745 744	3,039,253				
December 1973 December 1974	46	754 754	3,372,453				
December 17/4	40	134	3,314,433				

IIN	11/1	EST	M	EN		•
	' V		M		`	

Investment Returns for Fiscal Year End June 30, 2016

	Assets Under Management (Market Value)	Fiscal Year Investment Performance
Domestic Equity		
Barrow, Hanley, Mewhinney & Strauss, Inc.	50,094,716	2.21%
BlackRock S&P 500	8,387,873	4.02%
The Boston Company Asset Management	40,352,260	-9.42%
Dimensional Fund Advisors, Inc.	43,303,483	-5.33%
State Board of Investments - Domestic Equity	191,503,219	2.22%
Wellington Management Company, LLP	42,956,086	-10.41%
	\$ 376,597,637	
International Equity		
State Board of Investments - Int'l Equity	75,039,743	-9.49%
	\$ 75,039,743	
Global Equity		
Morgan Stanley Global Franchise	53,126,528	10.99%
JP Morgan Focus	47,724,081	-8.51%
	\$ 100,850,608	
Fixed Income		
Brandywine Global Opportunistic Fixed	35,206,067	5.40%
Allianz Cash Overlay	25,074,390	5.66%
Guggenheim Core Plus	103,645,373	6.34%
	\$ 163,925,831	
Real Assets	25 226 222	04.000/
Advantus	35,236,823	24.30%
UBS Trumbull Fund	43,470,098	10.76%
UBS Growth & Income Fund	15,502,052	19.15%
Tortoise MLP	18,265,067	-14.99%
Dune Realty Partners	2,771,176	25.54%
Parametric - TIPS	10,270,493	4.50%
	\$ 125,515,708	
Private Equity	40.000.444	
Franklin Park	18,082,444	
North Sky	7,888,030	
RWI Ventures I	246,000	
RWI Ventures II	607,750	
TCW LLC	4,881,198	
VIA Partners	1,502,671	0.070/
	\$ 33,208,093	2.07%
Alternatives	20.202.202	4.000/
Parametric Defensive Equity	20,292,392 20,292,392	4.28%
Opportunistic		
Corvex	13,445,278	-21.13%
Entrust	8,652,084	9.96%
	\$ 22,097,362	
Cash		
Cash - US Bank Custody	32,976,634	0.05%
Cash - US Bank Checking	3,707,725	
Parametric Cash Overlay	1,898,948	-3.01%
	\$ 38,583,307	
Total Fund (net of fees)	\$ 956,110,682	0.34%
Total Fund Benchmark	Ţ 000,110,00Z	1.51%
IOLAI I UIIU DEIICIIIIAIK		1.51%

	Quantity					Accru	ed Interest		
Asset Class / Security Type / Issuer	Shares or Units		Cost		Market Value	or D	Dividends	М	kt + Accrued
Cash or Equivalents		\$	500	\$	500	\$		\$	500
Imprest Cash U.S. Bank Interest Bearing Checking Acct	_	٦	104,462	\$	104,462	۲	-	۲	104,462
U.S. Bank Commercial Paper Sweep	_		3,602,764	۶ \$	3,602,764		_		3,602,764
Custodian Short Term Investment Pool	_		40,103,984	Ţ	40,103,984		6,569		40,110,553
Subtotal - Cash or Equivalents	-	\$	43,811,710	\$	43,811,710	\$	6,569	\$	43,818,279
Domostic Faulty Constitue									
Domestic Equity Securities Acadia Healthcare Co Inc	13,600	\$	810,700	\$	753,440	\$	_	\$	753,440
Adeptus Health Inc Class A	10,121	Ą	608,311	Ţ	522,851	Ų	_	Ą	522,851
Advance Auto Parts Inc	3,800		575,679		614,194		228		614,422
Air Prods Chemicals Inc	10,800		1,436,956		1,534,032		9,288		1,543,320
Akorn Inc	19,873		738,952		566,082		-		566,082
	5,700		463,411		590,064		4,560		594,624
Alliance Data Systems Corn	6,200		1,329,947		1,214,704		4,300		
Alliance Data Systems Corp			490,648				16,611		1,214,704
Altria Group Inc	29,400		· ·		2,027,424		10,011		2,044,035
American Campus Communities	15,900		662,517		840,633		- - 742		840,633
American Express Co	19,800		1,085,400		1,203,048		5,742		1,208,790
Antero Midstream Partners Lp	13,631		368,859		379,896		-		379,896
Anthem Inc	6,600		662,161		866,844		-		866,844
Apartment Invt Mgmt Co Cl A	4,226		165,842		186,620		-		186,620
Assurant Inc	9,774		748,729		843,594		-		843,594
At&T Inc	15,800		558,513		682,718		-		682,718
Atwood Oceanics Inc	21,000		417,062		262,920		- 42.450		262,920
Avalonbay Cmntys Inc	9,000		1,297,883		1,623,510		12,150		1,635,660
Avis Budget Group Inc	37,308		934,826		1,202,437		-		1,202,437
Bank Of America Corp	54,628		1,053,312		724,914		-		724,914
Belden Inc	23,797		1,425,657		1,436,625		1,350		1,437,975
Borg Warner Inc	19,900		775,391		587,448				587,448
Boston Pptys Inc	8,879		972,555		1,171,140		5,771		1,176,911
Boston Scientific Corp	38,737		574,824		905,284		-		905,284
Bp Plc Spon A D R	30,300		1,372,226		1,075,953		-		1,075,953
Brixmor Property Group Inc	14,800		379,622		391,608		-		391,608
Broadridge Financial Solutions Inc	6,445		404,123		420,214		-		420,214
Brookdale Sr Living Inc	45,967		749,279		709,730		-		709,730
Buckeye Partners Lp	15,405		1,078,001		1,083,434		-		1,083,434
Calpine Corp	45,111		656,450		665,387		-		665,387
Camden Ppty Tr Sbi	6,900		524,758		610,098		5,175		615,273
Capital One Financial Corp	16,400		1,160,538		1,041,564		-		1,041,564
Cardinal Health Inc	12,900		729,508		1,006,329		5,791		1,012,120
Carnival Corp	19,700		621,911		870,740		-		870,740
Cdw Corp De	39,400		1,350,032		1,579,152		-		1,579,152
Cerner Corporation	9,845		652,353		576,917		-		576,917
Cheniere Energy Inc	14,262		358,025		535,538		-		535,538
Cheniere Energy Partners Lp	20,696		358,223		412,471		-		412,471
Chevron Corporation	5,200		241,993		545,116		-		545,116
Ciena Corp	59,874		1,156,649		1,122,638		-		1,122,638
Citigroup Inc	17,510		725,022		742,249		-		742,249
Clarcor Inc	3,676		204,547		223,611		-		223,611
Columbia Bkg Sys Inc	7,274		191,507		204,108		-		204,108
Columbia Pipeline Partners L P	6,068		159,481		91,020		-		91,020
Commvault Systems Inc	24,411		967,536		1,054,311		-		1,054,311

	Quantity			Accrued Interest	
Asset Class / Security Type / Issuer	Shares or Units	Cost	Market Value	or Dividends	Mkt + Accrued
Canacanhilling	13,900	254 526	606,040		606,040
Conocophillips Corelogic Inc	13,900 8,040	354,536 207,083	309,379	-	309,379
Cracker Barrel Old Ctry Store	1,900	233,271	325,793	_	325,793
•	44,400	989,264	1,313,352	_	1,313,352
Crh Spon A D R Cubesmart	14,257	238,032	440,256	2,994	443,250
Cyrusone Inc	11,300	507,965	628,958	4,294	633,252
D R Horton Inc	26,100	597,407	821,628	4,234	821,628
Dct Industrial Trust Inc	8,400	268,175	403,536	2,436	405,972
Ddr Corp	15,200	264,647	275,728	2,888	278,616
Deere Co	12,200	1,089,339	988,688	7,320	996,008
Digital Realty Trust Inc	10,600	780,412	1,155,294	-	1,155,294
Dollar General Corp	9,500	691,369	893,000	_	893,000
Dollar Tree Inc	5,900	329,476	556,016	_	556,016
Dominos Pizza Inc	2,277	288,303	299,152	_	299,152
Douglas Emmitt Inc	4,800	143,629	170,496	1,056	171,552
Duke Realty Corporation	30,400	510,092	810,464	-	810,464
Dunkin Brands Group Inc	7,900	360,657	344,598	_	344,598
E Trade Financial Corp	23,492	373,402	551,827	_	551,827
Education Realty Trust Inc	8,900	353,582	410,646	_	410,646
Edwards Lifesciences Corp	4,723	337,926	471,025	_	471,025
Electronic Arts Inc	7,200	491,654	545,472	_	545,472
Enbridge Energy Partners L P	6,655	248,636	154,396	_	154,396
Energy Transfer Equity L P	44,375	649,548	637,669	_	637,669
Energy Transfer Equity E1 Energy Transfer Partners L P	21,226	636,124	808,074	_	808,074
Enterprise Prods Partners L P	59,454	1,734,669	1,739,624	_	1,739,624
Envestnet Inc	5,907	217,260	196,762	_	196,762
Envision Healthcare Holdings Inc	13,800	434,585	350,106	_	350,106
Eqt Gp Holdings Lp	3,914	118,229	99,768	_	99,768
Eqt Midstream Partners Lp	14,082	1,061,543	1,130,785	_	1,130,785
Equinix Inc	4,462	1,267,828	1,730,051	-	1,730,051
Equity Lifestyle Pptys Inc	5,200	300,484	416,260	2,210	418,470
Equity Residential	12,900	815,525	888,552	6,498	895,050
Essex Ppty Tr Inc	4,594	756,401	1,047,845	7,350	1,055,196
Expedia Inc	5,870	540,489	623,981	-	623,981
Express Scripts Hldgs C	16,900	1,185,794	1,281,020	-	1,281,020
Extra Space Storage Inc	6,300	324,059	583,002	-	583,002
F E I Co	2,800	219,425	299,264	-	299,264
Fabrinet	5,885	187,914	218,451	-	218,451
Federal Rity Invt Tr Sbi New	3,000	365,077	496,650	2,726	499,376
Fidelity National Financial Inc	13,560	268,027	508,500	-	508,500
Fidelity National Financial Inc	25,444	578,097	291,843	-	291,843
First Data Corp Class A	51,700	590,930	572,319	-	572,319
First Indl Rity Tr Inc	23,000	480,442	639,860	4,370	644,230
First Republic Bank San Fran	3,981	227,524	278,630	-	278,630
Fleetcor Technologies Inc	4,800	684,197	687,024	-	687,024
Flir Systems Inc	22,446	722,563	694,704	_	694,704
Gamestop Corp Cl A	13,100	400,150	348,198	_	348,198
General Dynamics Corp	6,900	535,373	960,756	5,244	966,000
General Growth Properties	34,700	829,503	1,034,754	5,244	1,034,754
Genesis Energy Lp	10,314	518,791	395,748	_	395,748
Global Payments Inc	7,694	452,483	549,198	-	549,198
Grand Canyon Education Inc	15,200	619,434	606,784	-	606,784
Gw Pharmaceuticals A D R	11,417	746,311	1,045,455		000,764

	Quantity			Accrued Interest	
Asset Class / Security Type / Issuer	Shares or Units	Cost	Market Value	or Dividends	Mkt + Accrued
Hada Balifarata	12 200	620.450	FF7 100		FF7 100
Harley Davidson Inc	12,300	630,159	557,190	-	557,190
Harman International	11,300	1,203,498	811,566	-	811,566
Hcp Inc	7,500	279,109	265,350	-	265,350
Hd Supply Holdings Inc	23,768	742,994	827,602	-	827,602
Hd Supply Holdings Inc	26,800	813,841	933,176	-	933,176
Highwoods Properties Inc	10,400	443,068	549,120	-	549,120
Honeywell International Inc	8,500	278,969	988,720	-	988,720
Host Hotels Resorts Inc	39,910	713,410	646,941	7,982	654,923
Houghton Mifflin Harcourt Co	72,272	1,304,030	1,129,611	-	1,129,611
Hubbell Inc	7,702	791,820	812,330	-	812,330
Huron Consulting Group Inc	1,103	76,181	66,643	-	66,643
Icon Plc	15,898	948,955	1,113,019	-	1,113,019
Imax Corp	9,700	348,535	285,956	-	285,956
Ims Health Holdings Inc	27,100	722,579	687,256	-	687,256
Ingram Micro Inc Cl A	4,413	115,126	153,484	-	153,484
Intel Corp	24,600	450,696	806,880	-	806,880
Intercontinental Exchange In	3,100	776,192	793,476	1,848	795,324
Interface Inc	32,478	626,765	495,290	-	495,290
J P Morgan Chase Co	24,300	945,375	1,510,002	-	1,510,002
Johnson Controls Inc	32,200	1,478,443	1,425,172	9,338	1,434,510
Johnson Johnson	11,000	719,083	1,334,300	-	1,334,300
Kansas City Southern	5,600	501,733	504,504	-	504,504
Keysight Technologies Inc	22,389	704,188	651,296	-	651,296
Kilroy Rlty Corp	7,300	398,678	483,917	3,188	487,105
Kimco Realty Corp	25,600	572,771	803,328	-	803,328
Knight Transn Inc	37,738	938,665	1,003,076	-	1,003,076
Korn Ferry Intl	3,610	104,057	74,727	-	74,727
Lam Research Corp	10,900	775,846	916,254	-	916,254
Lasalle Hotel Properties	2,400	64,124	56,592	1,080	57,672
Leucadia Natl Corp	75,110	1,569,057	1,301,656	-	1,301,656
Liberty Ppty Tr Sbi	11,200	387,971	444,864	5,320	450,184
Lincoln National Corp	14,300	701,204	554,411	-	554,411
Lithia Motors Inc Cl A	9,958	868,056	707,715	-	707,715
Lkq Corp	14,666	387,965	464,912	-	464,912
Lumentum Holdings Inc W I	17,458	442,152	422,484	-	422,484
Macerich Co	7,500	587,803	640,425	-	640,425
Magellan Midstream Partners Lp	20,764	1,176,032	1,578,064	-	1,578,064
Marathon Petroleum Corp	13,600	476,283	516,256	-	516,256
Marketaxess Hldgs Inc	3,200	316,539	465,280	-	465,280
Maxim Integrated Prods Inc	11,064	411,801	394,874	-	394,874
Media General Inc	9,297	149,652	159,815	-	159,815
Medtronic Plc	18,800	1,446,660	1,631,276	-	1,631,276
Mellanox Technologies Ltd A D R	14,300	692,029	685,828	-	685,828
Merck Co Inc	19,100	806,079	1,100,351	8,786	1,109,137
Methanex Corp	40,875	1,143,836	1,189,463	-	1,189,463
Methode Electronics Inc	20,852	648,421	713,764	-	713,764
Michaels Cos Inc The	23,200	523,718	659,808	-	659,808
Microsemi Corp	5,963	185,862	194,871	-	194,871
Microsoft Corp	30,400	573,775	1,555,568	-	1,555,568
Miller Herman Inc	25,100	718,455	750,239	3,334	753,573
Mohawk Inds Inc	4,600	885,334	872,896	-	872,896
Monster Beverage Corp	3,300	277,212	530,343		530,343

Mosaic Co The 42,435 Mplx Lp 32,305 New Gold Inc 68,775 Nexstar Broadcasting Group A 12,140 Nielsen Holdings Plc 31,039 Northern Tr Corp 8,900 Norwegian Cruise Line Holdings Ltd 16,800 Oaktree Capital Group Llc 16,224 Occidental Petroleum Corporation 12,400 Office Depot Inc 79,055 Old Dominion Fght Line Inc 13,100 Oneok Inc 1,919 Oneok Partners Lp 24,278 Oracle Corporation 39,200 P N C Financial Services Group Inc 11,300 Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Philip Morris Intl 15,900 Phillips 66 Phillips 66 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 12,900 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIJ Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175 Seagate Technology 15,300	1,077,701 1,396,087 181,629 691,850 1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948 832,266	1,110,948 1,086,417 301,235 577,621 1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976 398,310	or Dividends	1,110,948 1,086,417 301,235 577,621 1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Mplx Lp 32,305 New Gold Inc 68,775 Nexstar Broadcasting Group A 12,140 Nielsen Holdings Plc 31,039 Northern Tr Corp 8,900 Norwegian Cruise Line Holdings Ltd 16,800 Oaktree Capital Group Llc 16,224 Occidental Petroleum Corporation 12,400 Office Depot Inc 79,055 Old Dominion Fght Line Inc 13,100 Oneok Inc 1,919 Oneok Partners Lp 24,278 Oracle Corporation 39,200 P N C Financial Services Group Inc 11,300 Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Phillip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinancle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Proto Labs Inc 4,641 Public Storage Inc 6,800	1,396,087 181,629 691,850 1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,086,417 301,235 577,621 1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 - 9,300 - - - - - 2,736 - 16,218	1,086,417 301,235 577,621 1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Mplx Lp 32,305 New Gold Inc 68,775 Nexstar Broadcasting Group A 12,140 Nielsen Holdings Plc 31,039 Northern Tr Corp 8,900 Norwegian Cruise Line Holdings Ltd 16,800 Oaktree Capital Group Llc 16,224 Occidental Petroleum Corporation 12,400 Office Depot Inc 79,055 Old Dominion Fght Line Inc 13,100 Oneok Inc 1,919 Oneok Partners Lp 24,278 Oracle Corporation 39,200 P N C Financial Services Group Inc 11,300 Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Phillip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinancle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Proto Labs Inc 4,641 Public Storage Inc 6,800	1,396,087 181,629 691,850 1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,086,417 301,235 577,621 1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 - 9,300 - - - - - 2,736 - 16,218	1,086,417 301,235 577,621 1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
New Gold Inc Nexstar Broadcasting Group A 12,140 Nielsen Holdings Plc 31,039 Northern Tr Corp 8,900 Norwegian Cruise Line Holdings Ltd 16,800 Oaktree Capital Group Llc 16,224 Occidental Petroleum Corporation Office Depot Inc Oneok Inc Oneok Inc Oneok Partners Lp Oracle Corporation P N C Financial Services Group Inc Phillips Morris Intl Phillips 66 Phillips 66 Physicians Realty Trust Plains GP Holdings Lp Cl A Plains All Amer Pipeline Lp Plains GP Holdings Lp Cl A Propeyes Louisiana Kitchen Inc Prologis	181,629 691,850 1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440	301,235 577,621 1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 - 9,300 - - - - - 2,736 - 16,218	301,235 577,621 1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Nexstar Broadcasting Group A Nielsen Holdings Plc 31,039 Northern Tr Corp 8,900 Norwegian Cruise Line Holdings Ltd 16,800 Oaktree Capital Group Llc 16,224 Occidental Petroleum Corporation 21,400 Office Depot Inc 79,055 Old Dominion Fght Line Inc 13,100 Oneok Inc Oneok Partners Lp Oracle Corporation 9, N C Financial Services Group Inc Phillips 66 Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust Plains All Amer Pipeline Lp Plains GP Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Proto Labs Inc Proto Labs Inc Public Storage Inc Py Corp Qualcomm Inc Raymond James Finl Inc Regal Beloit Corp Raymond James Finl Inc Ross Stores Inc Scansource Inc Sq.900 Scansource Inc	691,850 1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	577,621 1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 - 9,300 - - - - - 2,736 - 16,218	577,621 1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Nielsen Holdings Plc Northern Tr Corp R,900 Norwegian Cruise Line Holdings Ltd Oaktree Capital Group Llc Occidental Petroleum Corporation Office Depot Inc Oneok Inc Oneok Inc Oneok Partners Lp Oracle Corporation Phillips 66 Phillips 66 Phillips 66 Partners Lp Phisicians Realty Trust Pinancial Financial Partners Plains All Amer Pipeline Lp Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Proto Labs Inc Proto Labs Inc Public Storage Inc Py Corp Raymond James Finl Inc Ross Stores Inc Sanoti A D R Scansource Inc Squans Ind, 24,900 Right August 10,175 Ross Stores Inc Scansource Inc Squans Realty Trust Plouging Trust Public Storage Inc Regal Beloit Corp Ross Stores Inc Scansource Inc	1,447,616 651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,613,097 589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 9,300 2,736 - 16,218	1,613,097 592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Northern Tr Corp Norwegian Cruise Line Holdings Ltd Oaktree Capital Group Llc Occidental Petroleum Corporation Office Depot Inc Office Depot Inc Oneok Inc Oneok Inc Oneok Partners Lp Oracle Corporation Pebblebrook Hotel Trust Phillip Morris Intl Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Proto Labs Inc Proto Labs Inc Public Storage Inc Ragal Beloit Corp Ragency Centers Corporation Ross Stores Inc Ross Stores Inc Sanotia AD R Scansource Inc 11,400 16,224 16,240 12,400 12,400 13,100 12,400 13,100 12,400 13,100 13,100 13,100 14,621 14,900 14,621 15,900 16,500	651,189 900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	589,714 669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	3,204 9,300 2,736 - 16,218	592,918 669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Norwegian Cruise Line Holdings Ltd Oaktree Capital Group Llc Occidental Petroleum Corporation Office Depot Inc Office Depot Inc Oneok Inc Oneok Inc Oneok Partners Lp Oracle Corporation PN C Financial Services Group Inc Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Prologis Inc Proto Labs Inc Public Storage Inc Raymond James Finl Inc Regency Centers Corporation Ross Stores Inc Sanofi A D R Scansource Inc 16,900 16,224 17,900 18,100 18,400 19,100 10,118 10,175	900,470 827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	669,312 726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	9,300 - - - - - 2,736 - 16,218	669,312 726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Oaktree Capital Group LIC Occidental Petroleum Corporation 12,400 Office Depot Inc Office Depot Inc Office Depot Inc Office Depot Inc Oneok Inc I,919 Oneok Partners Lp Oracle Corporation Ph C Financial Services Group Inc Pebblebrook Hotel Trust Philip Morris Intl Physicians Realty Trust Physicians Realty Trust Phisma Gp Holdings Lp CI A Popeyes Louisiana Kitchen Inc Pra Group Inc Proto Labs Inc Proto Labs Inc Public Storage Inc Pyh Corp Qualcomm Inc Regal Beloit Corp Ross Stores Inc Sanotia AD R Scansource Inc 11,400 Procost Inc Proto Storage Inc Proto Storage Inc Popeyes Centers Corporation Ross Stores Inc Sanotia AD R Scansource Inc Inc,700 Popose Scansource Inc Popose Scansource Inc Popose Scansource Inc Popose Popos	827,767 340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	726,186 936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	9,300 - - - - - 2,736 - 16,218	726,186 946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Occidental Petroleum Corporation Office Depot Inc Office Depot Inc Office Depot Inc Old Dominion Fght Line Inc I 13,100 Oneok Inc I 1,919 Oneok Partners Lp Oracle Corporation P N C Financial Services Group Inc Pebblebrook Hotel Trust Fizer Inc Phillip Morris Intl Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Proto Labs Inc Public Storage Inc Qualcomm Inc Raymond James Finl Inc Regal Beloit Corp Raymond James Finl Inc Ross Stores Inc Sanofi A D R Scansource Inc I 13,100 Sanofi A D R Scansource Inc I 12,400 I 13,100 I 12,910 I 12,910 I 12,400	340,605 262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	936,944 261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	9,300 - - - - - 2,736 - 16,218	946,244 261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Office Depot Inc Old Dominion Fght Line Inc Oneok Inc Oneok Inc Oneok Partners Lp Onacle Corporation P N C Financial Services Group Inc Pebblebrook Hotel Trust Phillips Morris Intl Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Propeyes Louisiana Kitchen Inc Proto Labs Inc Public Storage Inc Qualcomm Inc Raymond James Finl Inc Regal Beloit Corp Ross Stores Inc Sanofi A D R Scansource Inc Sanoga 24,278 Ag 24,278 Cappa 24,278 Cap	262,702 910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	261,672 790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218	261,672 790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Old Dominion Fght Line Inc 13,100 Oneok Inc 1,919 Oneok Partners Lp 24,278 Oracle Corporation 39,200 P N C Financial Services Group Inc 11,300 Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Philip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rij Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900	910,919 76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	790,061 91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218	790,061 91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Oneok Inc Oneok Partners Lp Onacle Corporation PN C Financial Services Group Inc Philip Morris Intl Philips 66 Physicians Realty Trust Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Proto Labs Inc Proto Cap Proto	76,977 844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	91,057 972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218 - -	91,057 972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Oneok Partners Lp Oracle Corporation 39,200 P N C Financial Services Group Inc Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Philip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 Partners Lp Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Proto Labs Inc Public Storage Inc Qualcomm Inc Ralph Lauren Corp Ralph Lauren Corp Raymond James Finl Inc Regal Beloit Corp Ross Stores Inc Scansource Inc Scansource Inc Stansource Inc	844,869 1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	972,577 1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218 - -	972,577 1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Oracle Corporation 39,200 P N C Financial Services Group Inc 11,300 Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Philip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	1,599,794 666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,604,456 919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218 - -	1,604,456 919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
P N C Financial Services Group Inc Pebblebrook Hotel Trust 7,200 Pfizer Inc 37,555 Philip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Prologis Inc Proto Labs Inc Public Storage Inc Public Storage Inc Qualcomm Inc Ralph Lauren Corp Raymond James Finl Inc Regal Beloit Corp Regency Centers Corporation Rij Lodging Trust 7,700 Ross Stores Inc Scansource Inc 10,175	666,159 247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440	919,707 189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218 - -	919,707 191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Pebblebrook Hotel Trust Pfizer Inc Pfizer Inc Philip Morris Intl 15,900 Phillips 66 Phillips 66 7,050 Phillips 66 7,050 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust Pinnacle Financial Partners Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Prologis Inc Proto Labs Inc Proto Labs Inc Public Storage Inc Public Storage Inc Public Storage Inc Ralph Lauren Corp Ralph Lauren Corp Ralph Lauren Corp Raymond James Finl Inc Regal Beloit Corp Regency Centers Corporation Rij Lodging Trust 7,700 Ross Stores Inc Scansource Inc 10,175	247,297 949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	189,000 1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	2,736 - 16,218 - -	191,736 1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Pfizer Inc Phillip Morris Intl 15,900 Phillips 66 7,050 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Prologis Inc Proto Labs Inc Proto Labs Inc Public Storage Inc Public Storage Inc Public Storage Inc Ralph Lauren Corp Ralph Lauren Corp Raymond James Finl Inc Regal Beloit Corp Regency Centers Corporation Rij Lodging Trust 7,700 Ross Stores Inc Scansource Inc 11,4063 Scansource Inc 10,175	949,449 673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,322,312 1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	- 16,218 - -	1,322,312 1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Philip Morris Intl Phillips 66 Phillips 66 Phillips 66 Partners Lp Physicians Realty Trust Physicians Realty Trust Pinnacle Financial Partners Plains All Amer Pipeline Lp Plains Gp Holdings Lp Cl A Popeyes Louisiana Kitchen Inc Pra Group Inc Prologis Inc Prologis Inc Proto Labs Inc Public Storage Inc Public Storage Inc Public Storage Inc Ralph Lauren Corp Ralph Lauren Corp Raymond James Finl Inc Regal Beloit Corp Ross Stores Inc Ross Ross Ross Ross Ross Ross Ross Ross	673,070 107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	1,617,348 559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	- -	1,633,566 559,347 640,550 358,872 552,103 1,368,727 105,531
Phillips 66 7,050 Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 11,75	107,611 573,770 311,955 494,549 2,348,321 79,440 444,948	559,347 640,550 355,069 552,103 1,368,727 105,531 458,976	- -	559,347 640,550 358,872 552,103 1,368,727 105,531
Phillips 66 Partners Lp 11,465 Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	573,770 311,955 494,549 2,348,321 79,440 444,948	640,550 355,069 552,103 1,368,727 105,531 458,976	-	640,550 358,872 552,103 1,368,727 105,531
Physicians Realty Trust 16,900 Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	311,955 494,549 2,348,321 79,440 444,948	355,069 552,103 1,368,727 105,531 458,976		358,872 552,103 1,368,727 105,531
Pinnacle Financial Partners 11,302 Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	494,549 2,348,321 79,440 444,948	552,103 1,368,727 105,531 458,976	- - - -	552,103 1,368,727 105,531
Plains All Amer Pipeline Lp 49,790 Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	2,348,321 79,440 444,948	1,368,727 105,531 458,976	- - -	1,368,727 105,531
Plains Gp Holdings Lp Cl A 10,118 Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	79,440 444,948	105,531 458,976	- -	105,531
Popeyes Louisiana Kitchen Inc 8,400 Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	444,948	458,976	-	
Pra Group Inc 16,500 Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175			-	458,976
Prologis Inc 30,350 Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175				398,310
Proto Labs Inc 4,641 Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	1,212,711	1,488,364	_	1,488,364
Public Storage Inc 6,800 Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	308,991	267,136	-	267,136
Pvh Corp 3,551 Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	1,185,109	1,738,012	-	1,738,012
Qualcomm Inc 21,900 Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 Rlj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	369,457	334,611	-	334,611
Ralph Lauren Corp 8,400 Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	1,546,156	1,173,183	- -	1,173,183
Raymond James Finl Inc 14,063 Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	771,683	752,808	4,200	757,008
Regal Beloit Corp 3,542 Regency Centers Corporation 3,200 RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	759,458	693,306	4,200	693,306
Regency Centers Corporation3,200Rlj Lodging Trust7,700Ross Stores Inc7,000Sanofi A D R24,900Scansource Inc10,175	230,391	194,987	- -	194,987
RIj Lodging Trust 7,700 Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	196,601	267,936	-	267,936
Ross Stores Inc 7,000 Sanofi A D R 24,900 Scansource Inc 10,175	196,562		2 5 4 1	167,706
Sanofi A D R 24,900 Scansource Inc 10,175	257,143	165,165 396,830	2,541 -	396,830
Scansource Inc 10,175	945,107	1,042,065	-	1,042,065
		377,594	-	377,594
Seagate reciniology 15,300	371,122 367,265	377,394	-	372,708
Seaspan Corp 6.375% Pfd 21,725	544,902		-	543,342
		543,342	-	
Shell Midstream Partners L P 15,234 Sherwin Williams Co 1,550	484,670 386,358	514,757 455,189	-	514,757 455,189
	2,256,768	3,484,499	-	3,484,499
			-	
Sinclair Broadcast Group Inc A 38,424	1,146,786	1,147,341	-	1,147,341
Skechers U S A Inc 14,900 Skyworks Solutions Inc 5,000		442,828	-	442,828
•	477,603	316,400	- 6 624	316,400
SI Green Rity Corp 9,200	477,603 240,236	070 524	6,624	986,148
Slm Corp 189,282	477,603 240,236 919,324	979,524 1 160 763	_	1,169,763 448,209
Snap On Inc 2,840	477,603 240,236 919,324 1,373,985	1,169,763		
Snap On Inc 3,800 Southwestern Energy Co 27,600	477,603 240,236 919,324		-	599,716

set Class / Security Type / Issuer	Quantity Shares or Units	Cost	Market Value	Accrued Interest or Dividends	Mkt + Accrued
7, 76-7					
Spectra Energy Partners Lp	14,388	684,907	678,826	-	678,826
Staples Inc	91,057	1,103,685	784,911	-	784,911
State Str Corp	20,700	994,745	1,116,144	7,038	1,123,182
Steelcase Inc Cl A	31,904	458,831	432,937	-	432,937
Stericycle Inc	5,200	590,965	541,424	-	541,424
Store Capital Corp	10,700	261,806	315,115	2,889	318,004
Sun Cmntys Inc	7,100	484,285	544,144	4,615	548,759
Sunoco Logistics Partners L P	39,937	1,204,659	1,148,189	-	1,148,189
Svb Finl Group	10,187	860,147	969,395	-	969,395
Tallgrass Energy Partners L P	7,608	325,505	350,120	-	350,120
Talmer Bancorp Inc Cl A	10,629	153,329	203,758	-	203,758
Tesoro Logistics Lp	15,947	882,240	789,855	-	789,85
Teva Pharmaceutical Inds Ltd A D R	26,800	1,208,940	1,346,164	-	1,346,164
Texas Instruments Inc	21,100	524,374	1,321,915	-	1,321,915
Therapeutics Md Inc	127,604	1,076,590	1,084,634	-	1,084,634
Thor Industries Inc	7,200	417,085	466,128	-	466,12
Transunion	8,100	261,384	270,864	-	270,86
Travelers Cos Inc	12,800	526,570	1,523,712	-	1,523,71
Trinet Group Inc	36,500	703,266	758,835	-	758,83
Trueblue Inc	43,436	928,193	821,809	-	821,80
Udr Inc	7,200	212,538	265,824	-	265,82
United Health Group Inc	7,600	338,878	1,073,120	-	1,073,12
United Microelectron Sp A D R	364,410	664,402	725,176	-	725,17
United Technologies Corp	12,300	1,165,093	1,261,365	-	1,261,36
Universal Display Corporation	14,474	466,619	981,337	-	981,33
Universal Health Svcs B	2,300	216,384	308,430	-	308,43
Valero Energy Partners Lp	8,357	290,864	392,863	-	392,86
Vantiv Inc	9,200	307,167	520,720	-	520,72
Veeco Instrs Inc Del	25,526	830,910	422,711	-	422,71
Ventas Inc	12,961	718,267	943,820	-	943,82
Verizon Communications Inc	26,696	1,133,228	1,490,705	_	1,490,70
Viavi Solutions Inc	124,679	882,046	826,622	_	826,62
Vornado Realty Trust	12,342	1,109,265	1,235,681	-	1,235,68
Wabco Hldgs Inc	4,400	465,428	402,908	_	402,90
Wal Mart Stores Inc	14,500	894,404	1,058,790	_	1,058,79
Web Com Group Inc	75,500	1,650,108	1,372,590	_	1,372,59
Weingarten Rity Invts	12,000	409,634	489,840	_	489,84
Wells Fargo Co	32,000	848,778	1,514,560	_	1,514,56
Welltower Inc	20,700	1,352,407	1,576,719		1,576,71
Werner Enterprises Inc	18,432	414,198	423,383	_	423,38
	5,635	234,092	215,539	_	215,53
Western Gas Equity Partners Lp		•		-	
Western Gas Partners Lp	17,529	1,089,750	883,462	-	883,46
Williams Cos Inc	19,565	551,595	423,191	-	423,19
Williams Partners L P	2,652	90,602	91,865	-	91,86
Williams Sonoma Inc	7,486	434,204	390,245	-	390,24
Wyndham Worldwide Corp	10,400	740,525	740,792	-	740,79
Wynn Resorts Ltd	7,043	491,354	638,378	-	638,37
Yamana Gold Inc	39,007	242,619	202,836	-	202,83
Zimmer Biomet Holdings Inc	7,800	858,108	938,964	1,872	940,83

	Quantity					Accru	ued Interest		
Asset Class / Security Type / Issuer	Shares or Units		Cost	N	Market Value	or l	Dividends	Ν	/lkt + Accrued
Domestic Equity Commingled Accounts BlackRock S&P	11 512	\$	0 010 202	ć	0 207 072	ć		\$	0 207 072
Dimensional Fund Advisors	11,512 20,514	Ş	8,010,382 10,481,731	\$	8,387,873	\$	-	Þ	8,387,873
	•				43,303,483		-		43,303,483
SBI Domestic Index Stock	<u>4,685,230</u> 4,717,257	\$	164,474,643	\$	191,503,219	\$		<u>,</u>	191,503,219
Subtotal - Domestic Equity Commingled	4,717,237	-	182,966,756	<u> </u>	243,194,575	-		\$	243,194,575
International Equity Commingled Accounts									
JPMorgan Global Focus	2,311,093	\$	36,653,943	\$	47,724,081	\$	-	\$	47,724,081
SBI - International	10,342,669		82,309,453		75,039,743		-	\$	75,039,743
Subtotal - International Equity Commingled	12,653,762	\$	118,963,396	\$	122,763,824	\$	-	\$	122,763,824
International Equity Mutual Funds	2 445 072	ċ	42 540 724	ċ	F2 42C F20	ċ		¢	F2 426 F20
Morgan Stanley Ins Glb Fra I	2,445,973	\$	42,548,721	\$	53,126,528	\$		\$	53,126,528
Subtotal - Int'l Equity Mutual Fund	2,445,973	\$	42,548,721	\$	53,126,528	\$		\$	53,126,528
Fixed Income Commingled Accounts									
Allianz Global Investors	1	\$	22,000,000	\$	25,074,390	\$	-	\$	25,074,390
Brandywine Global Opportunistic Fi	823,121		33,935,739		35,206,067		-		35,206,067
Subtotal - Fixed Income Commingled	823,122	\$	55,935,739	\$	60,280,458	\$	-	\$	60,280,458
Fixed Income Securities									
Acc Group Housing	200,000	\$	200,000	\$	200,000	\$	5,856	\$	205,856
Acis Clo Ltd	600,000		582,000		524,976		6,331		531,306.52
Acis Clo Ltd	1,000,000		995,000		997,310		5,304		1,002,613.60
Acis Clo Ltd	600,000		587,400		594,528		4,991		599,519.48
Adams Outdoor Adve	650,000		650,000		650,000		1,092		651,092.36
Adt Corp	500,000		500,000		531,250		6,597		537,847.22
Aes Corp Va	130,000		129,675		129,675		394		130,068.80
Aim Aviation Finance	904,762		904,762		895,470		1,694		897,164.13
Alm Loan Funding	250,000		245,925		248,810		1,605		250,414.79
Amerigas Finance	400,000		400,000		403,000		250		403,250.00
Amtrust Financial Services Inc	641,000		641,000		592,925		14,832		607,757.03
Anchorage Credit	1,000,000		1,000,000		1,000,000		7,525		1,007,525.00
Apollo Aviation	975,000		961,101		962,813		2,113		964,925.00
Army Hawaii Family	490,000		490,000		497,816		1,252		499,067.72
Army Hawaii Family	490,000 239,052		490,000		497,811		1,252		499,062.82 251,132.94
Atlantic Marine Corp	•		229,818		250,051 178,750		1,082		•
Avaya Inc	250,000 946,604		248,750 887,742		946,604		4,375 453		183,125.00 947,057.25
Banc Of America Banc Of America	886,587		806,794		886,587		455 71		886,658.09
	550,000		550,000				9,692		•
Bank Of America Corp Bank Of America Corp	200,000		200,000		558,250 212,500		3,885		567,942.22 216,385.00
Barclays Mat	(2,086,500)		(2,086,500)		(2,086,500)		3,003		(2,086,500.00)
Barclays Mat	(811,000)		(811,000)		(811,000)		_		(811,000.00)
Bcap Llc Trust	741,498		693,996		699,996		60		700,055.65
Bhp Billiton Fin	400,000		403,600		425,000		5,400		430,400.00
Black Diamond Clo	750,000		745,313		743,400		4,967		748,367.12
Bumble Bee Acq Co	1,000,000		1,028,750		1,012,500		4,000		1,016,500.00
California St Build	600,000		903,795		970,560		7,600		978,160.00
Capmark Military	722,843		725,551		722,843		2,423		725,266
Capmark Military Hsg	827,316		907,979		1,208,799		3,849		1,212,649
Castlelake Aircraft	939,397		939,375		933,234		1,964		935,198
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Asset Class / Security Type / Insure Shares or Units Cost Market Value or Unidents Milt + Accrued Cerbers condorce 250,000 225,000 228,909 1,22 2249,729 Circe commercial 5,881,085 476,391 462,637 6,655 668,001 Chesterfield 438,000 438,000 488,000 88.48 248,156 Chicos Intermed 521 494 177 7 184 Chigroup 1,000,000 1,011,387 1,104,669 432 1,114,883 Chigroup formerci 3,850,000 500,701 510,241 6,39 389,799 Chigroup Inc 350,000 300,000 432,000 342,000 342,000 Ciligroup Inc 350,000 150,000 142,000 2,433 313,523 Ciligroup Inc 350,000 362,000 180,275 1,146 130,880 Ciligroup Inc 350,000 165,000 180,275 1,146 130,880 Ciligroup Inc 1,000,000 180,000		Quantity			Accrued Interest	
Cerberna Ombore	Asset Class / Security Type / Issuer	Shares or Units	Cost	Market Value	or Dividends	Mkt + Accrued
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Crece Commercial 5,981,085 476,391 462,637 6,265 486,901 Chesterfield 438,000	-					•
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F N M A 450,000 295,721 317,687 - 317,687 F N M A 1,650,000 1,119,516 1,182,687 - 1,182,687 F N M A 150,000 97,355 105,026 - 105,026 Fdf Limited 1,000,000 999,000 1,000,000 5,832 1,005,832 Fifth Third Bank 400,000 400,000 350,000 4,954 354,954 Figueroa Clo Ltd 250,000 246,000 241,170 961 242,131 Fort Benning Fam 750,000 582,188 580,883 2,739 583,622 Fortress Credit 1,000,000 1,000,000 1,000,000 5,277 1,005,277 Fortress Credit 1,000,000 245,825 243,615 1,846 245,461 Fortress Credit 250,000 245,825 243,615 1,846 245,461 Fortress Credit 200,000 194,080 190,504 1,831 192,335 Fortress Credit Bs 1,000,000 991,000 983,330 5					-	
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Fortress Credit 200,000 194,080 190,504 1,831 192,335 Fortress Credit Bs 1,000,000 991,000 983,330 5,846 989,176 Gallatin Funding 750,000 745,000 741,195 5,660 746,855 Garrison Funding 1,000,000 997,000 995,610 3,216 998,826 Garrison Funding 750,000 746,250 749,205 3,438 752,643 Gasco 470,464 1 470,464 3,006 473,469 Gasco 477,184 1 477,184 3,963 481,148 Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Fortress Credit					
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Garrison Funding 1,000,000 997,000 995,610 3,216 998,826 Garrison Funding 750,000 746,250 749,205 3,438 752,643 Gasco 470,464 1 470,464 3,006 473,469 Gasco 477,184 1 477,184 3,963 481,148 Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Fortress Credit Bs					-
Garrison Funding 750,000 746,250 749,205 3,438 752,643 Gasco 470,464 1 470,464 3,006 473,469 Gasco 477,184 1 477,184 3,963 481,148 Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Gallatin Funding		· ·			· ·
Gasco 470,464 1 470,464 3,006 473,469 Gasco 477,184 1 477,184 3,963 481,148 Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Garrison Funding	1,000,000				998,826
Gasco 477,184 1 477,184 3,963 481,148 Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Garrison Funding		746,250	749,205		
Gcat 1,367,476 1,358,929 1,359,531 905 1,360,435	Gasco					
	Gasco			477,184		
Gmac Commercial 377,366 359,095 377,366 1,374 378,740	Gcat		1,358,929		905	
	Gmac Commercial	377,366	359,095	377,366	1,374	378,740

Golub Capital 250,000 249,238 2.2 Golub Capital 1,000,000 991,900 92 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo Lt 250,000 250,000 7.5 Great Lakes Clo Lt 750,000 750,000 750,000 7.5 Great Lakes Clo Lt 750,000 750,000 7.5 Great Lakes Clo Lt 750,000 1,000,000 750,000 7.5 Great Lakes Clo Lt 750,000 1,000,000 1,000,000 1,000,000 1,000,000	А	Accrued Interest	
Golub Capital 250,000 249,238 2.2 Golub Capital 1,000,000 991,900 92 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo 1 250,000 250,000 7. Great Lakes Clo 1 750,000 750,000 7. Great Lakes Clo L1 750,000 750,000 7. GS Mortgage 1,000,000 1,000,000 1,000,000 1,00 Gulfstream Natural 250,000 235,036 2.1 Halicyon Loan Advsr 250,000 249,063 2.4 Halliburton Co 350,000 250,625 2.1 Halliburton Libert 150,000 154,737 111 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hrg Group Inc Sr Nt 282,000 294,594 Husky Energy Inc 300,000 296,109 33 Islan Enterprises 600,000 613,406 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 389,825 55 Kenedy Wilson Inc 150,000 495,750 44 Kkr Financial Clo 500,000 498,750 44 Kkr Financial Clo 500,000 498,750 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 404,674 790,492 Lstar Securities 95,000 97,500 98,750 Magellan Midstream 100,000 98,750 98,750 Magellan Midstream 100,000 98,750 11 Magellan Midstream 100,000 98,750 12 Marathon Clo Ltd 1,250,000 1,242,501 1,244,531 1,22 Marathon Clo Ltd 1,250,000 98,750 34 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 334,600 33 Micron Technology 500,000 476,875 44 Molex Electronics 283,000 375,685 385,547 Mid Olex Electronics 283,000 375,500 55 Monroe Capital Clo 600,000 577,500 55	alue	or Dividends	Mkt + Accrued
Golub Capital 250,000 249,238 2.2 Golub Capital 1,000,000 991,900 92 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo 1 250,000 250,000 7. Great Lakes Clo 1 750,000 750,000 7. Great Lakes Clo 1 750,000 1,000,000 1,000,000 1,000,000 1. Great Lakes Clo 1 750,000 235,036 2. Halliburton Co 350,000 249,063 2. Halliburton Co 350,000 250,625 2. Hess Corp 150,000 154,737 1. Hilton Usa Trust 850,000 857,294 8.8 Hospitality 650,000 635,293 6.6 Hrg Group Inc Sr Nt 282,000 294,594 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 33 Islinois St Ser 2 250,000 288,383 2.2 Ivy Hill Middle 550,000 539,825 5.5 Kenedy Wilson Inc 150,000 147,000 1. Kkr Fin Clo Ltd 500,000 495,750 44 Kkr Financial Clo 500,000 495,750 44 Kkr Financial Clo 500,000 498,760 44 Lancer Fin Spv Ltd 232,126 235,027 2.2 Lstar Securities 404,674 790,492 8. Lstar Securities 1,002,936 992,728 99 Lstar Securities 1,002,936 992,728 99 Lstar Securities 385,508 824,632 8. Lvii 1,627,912 1,627,912 1,62 Lvii 1,627,912 1,627,912 1,62 Lvii 1,627,912 1,627,912 1,62 Lvii 1,627,912 1,627,912 1,62 Marathon Clo Ltd 1,500,000 476,875 44 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 375,500 595 Monroe Capital Clo 600,000 577,500 595 Monroe Capital Clo 600,000 577,500 595	85,000	6,448	491,448
Golub Capital 1,000,000 991,900 90 Golub Capital 250,000 250,000 20 Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo Lt 250,000 250,000 250,000 250,000 76 Great Lakes Clo Lt 750,000 750,000 750,000 76 76 Gs Mortgage 1,000,000 <td>49,625</td> <td>1,984</td> <td>251,609</td>	49,625	1,984	251,609
Golub Capital Great Lakes Clo	87,540	3,833	991,373
Great Lakes Clo 1,000,000 995,500 1,00 Great Lakes Clo Lt 250,000 250,000 75 Great Lakes Clo Lt 750,000 750,000 75 Gs Mortgage 1,000,000 1,000,000 1,000 Gulfstream Natural 250,000 235,036 22 Hallburton Co 350,000 359,860 33 Hca Inc 250,000 250,625 22 Hess Corp 150,000 154,737 11 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hig Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 33 Icahn Enterprises 600,000 613,406 50 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 495,750 44 Kehe Distributors - -	39,760	1,938	241,698
Great Lakes Clo Lt 250,000 250,000 25 Great Lakes Clo Lt 750,000 750,000 75 Gs Mortgage 1,000,000 1,000,000 1,00 Gulfstream Natural 250,000 235,036 22 Hallburton Co 350,000 359,860 3' Hca Inc 250,000 250,625 22 Hess Corp 150,000 857,294 8' Hilton Usa Trust 850,000 857,294 8' Hospitality 650,000 635,293 6' Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 30 Icah Enterprises 600,000 613,406 50 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 539,825 50 Ker Fin Clo Ltd 50,000 498,750 44 Kkr Fin Clo Ltd 50,000 498,750	00,000	5,443	1,005,443
Great Lakes Clo Lt 750,000 750,000 76 Gs Mortgage 1,000,000 1,000,000 1,000,000 Gulfstream Natural 250,000 235,036 20 Halcyon Loan Advsr 250,000 249,063 22 Halliburton Co 350,000 359,860 33 Halliburton Loa Trust 850,000 250,625 22 Hess Corp 150,000 154,737 10 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hospitality 650,000 635,293 66 Husky Energy Inc 450,000 499,250 44 Husky Energy Inc 300,000 294,594 22 Husky Energy Inc 300,000 296,109 33 Icahn Enterprises 600,000 613,406 56 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 539,825 55 Kehe Distributors - -<	48,680	2,314	250,994
Gs Mortgage 1,000,000 1,000,000 1,00 Gulfstream Natural 250,000 235,036 22 Halcyon Loan Advsr 250,000 249,063 20 Halliburton Co 350,000 359,860 33 Hca Inc 250,000 250,625 22 Hess Corp 150,000 154,737 11 Hilton Usa Trust 850,000 635,293 66 Hospitality 650,000 635,293 66 Hrg Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 36 Icahn Enterprises 600,000 613,406 56 Illinois St Ser 2 250,000 288,383 26 Ivy Hill Middle 550,000 539,825 55 Kenedy Wilson Inc 150,000 147,000 14 Kkr Fin Clo Ltd 500,000 498,750 48 Kkr Fin Spv Ltd 232,126 235,027 <td>46,130</td> <td>7,585</td> <td>753,715</td>	46,130	7,585	753,715
Gulfstream Natural 250,000 235,036 20 Halcyon Loan Advsr 250,000 249,063 21 Halliburton Co 350,000 259,625 22 Hess Corp 150,000 154,737 10 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hrg Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 30 Icahn Enterprises 600,000 613,406 55 Illinois St Ser 2 250,000 288,383 26 Illy Hill Middle 550,000 539,825 55 Kene Distributors - - - Kernedy Wilson Inc 150,000 147,000 14 Kkr Fin Clo Ltd 500,000 498,750 48 Kvk Clo Ltd 500,000 489,750 48 Kvk Clo Ltd 500,000 489,762 <	01,190	2,085	1,003,275
Haliburton Co 350,000 249,063 26 Halliburton Co 350,000 359,860 3' Hca Inc 250,000 154,737 11 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 633,293 66 Hr Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 30 Icahn Enterprises 600,000 613,406 56 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 539,825 55: Kehe Distributors Kernedy Wilson Inc 150,000 147,000 12,000 Kkr Fin Clo Ltd 500,000 495,750 44 Kkr Kinancial Clo 500,000 498,750 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 494,280 849,762 8 Lstar Securities 416,474 790,492 44 Lstar Securities 51,005 938,166 99 Lstar Securities 1,002,936 992,728 96 Lstar Securities 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 12 Marathon Clo Ltd 1,250,000 1,244,500 1,00 Magellan Midstream 100,000 978,700 97 Mcf Clo Llc 350,000 476,875 44 Molex Electronics 283,000 266,678 22 Monroe Capital Clo 600,000 577,500 55	60,860	3,386	264,246
Halliburton Co 350,000 359,860 3 Hca Inc 250,000 250,625 22 Hess Corp 150,000 154,737 11 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hrg Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 300,000 409,250 44 Husky Energy Inc 300,000 296,109 36 Icahn Enterprises 600,000 613,406 55 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 539,825 55 Kehe Distributors - - - Kennedy Wilson Inc 150,000 147,000 14 Kkr Financial Clo 500,000 498,750 48 Kkr Fin Clo Ltd 500,000 498,750 48 Kkr Financial Clo 500,000 498,750 48 Kkr Fin Spv Ltd 232,126 235,027 22 Lstar Securities 416,474 790,492 44	06,518	396	206,913
Heas Corp 150,000 250,625 22 Hess Corp 150,000 154,737 16 Hilton Usa Trust 850,000 857,294 88 Hospitality 650,000 635,293 66 Hrg Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 36 Icahn Enterprises 600,000 613,406 55 Illinois St Ser 2 250,000 288,383 25 Illinois St Ser 2 250,000 539,825 55 Kehe Distributors Ker Fin Clo Ltd 500,000 495,750 44 Kr Fin Clo Ltd 500,000 498,750 44 Kr Fin Clo Ltd 500,000 498,750 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 57,452 666,913 66 Lstar Securities 951,005 938,166 99 Lstar Securities 355,000 334,600 33 Lvii 1,000,000 99,875 12 Lvii 1,000,000 978,700 99 Magellan Midstream 100,000 978,700 99 Marathon Clo Ltd 1,000,000 334,600 33 Micron Technology 500,000 476,875 44 Molex Electronics 283,000 266,678 22 Monroe Capital Clo 600,000 577,500 55	78,998	2,169	381,167
Hess Corp	59,375	9,302	268,677
Hilton Usa Trust	67,162	4,604	171,766
Hospitality	55,041	2,705	857,746
Hrg Group Inc Sr Nt 282,000 294,594 22 Husky Energy Inc 450,000 409,250 44 Husky Energy Inc 300,000 296,109 33 Icahn Enterprises 600,000 613,406 56 Illinois St Ser 2 250,000 288,383 26 Ivy Hill Middle 550,000 539,825 55 Kehe Distributors - - - Kennedy Wilson Inc 150,000 147,000 1 Kkr Fin Clo Ltd 500,000 495,750 49 Kvk Clo Ltd 500,000 498,750 49 Kvk Clo Ltd 500,000 489,806 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 8 Lstar Securities 416,474 790,492 44 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 86 Lvii 1,607,912 1,627,912	84,996	14,029	699,025
Husky Energy Inc Husky Energy Inc Husky Energy Inc Icahn Enterprises Illinois St Ser 2 Illinois St Ser 2 Ivy Hill Middle S50,000 S39,825 S50,000 S40,000 S40,700 S40,7	95,748	10,240	305,988
Husky Energy Inc Icahn Enterprises Icahn Enterprises Illinois St Ser 2 Illinois Ser 2 Illinois St Ser 2 Illinois Ser 2 Illinoi	65,426	3,753	469,179
Icahn Enterprises 600,000 613,406 55 Illinois St Ser 2 250,000 288,383 22 Ivy Hill Middle 550,000 539,825 55 Kehe Distributors - - Kennedy Wilson Inc 150,000 147,000 1- Kkr Fin Clo Ltd 500,000 495,750 44 Kvk Clo Ltd 500,000 498,750 45 Kvk Clo Ltd 500,000 489,806 45 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 8 Lstar Securities 416,474 790,492 44 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,01 Marathon Clo Ltd 1,200,000 978,700	04,758	2,533	307,291
Illinois St Ser 2	65,578	14,688	580,266
Ivy Hill Middle 550,000 539,825 55 Kehe Distributors - - Kennedy Wilson Inc 150,000 147,000 14 Kkr Fin Clo Ltd 500,000 495,750 48 Kkr Financial Clo 500,000 498,750 48 Kvk Clo Ltd 500,000 489,806 43 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 8 Lstar Securities 416,474 790,492 44 Lstar Securities 1,002,936 992,728 93 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912	86,370	5,750	292,120
Kehe Distributors - - Kennedy Wilson Inc 150,000 147,000 14 Kkr Fin Clo Ltd 500,000 495,750 48 Kkr Financial Clo 500,000 498,750 48 Kvk Clo Ltd 500,000 489,806 43 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,6	36,289	4,531	540,819
Kennedy Wilson Inc 150,000 147,000 14 Kkr Fin Clo Ltd 500,000 495,750 48 Kkr Financial Clo 500,000 498,750 48 Kvk Clo Ltd 500,000 489,806 48 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334	-	7,201	7,201
Kkr Fin Clo Ltd 500,000 495,750 48 Kkr Financial Clo 500,000 498,750 48 Kvk Clo Ltd 500,000 489,806 48 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912	46,250	2,203	148,453
Kkr Financial Clo 500,000 498,750 48 Kvk Clo Ltd 500,000 489,806 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,627,912 1,63 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,	97,950	3,667	501,617
Kvk Clo Ltd 500,000 489,806 44 Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 665,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,23 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 44 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 5	98,115	2,625	500,740
Lancer Fin Spv Ltd 232,126 235,027 22 Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 98 Lstar Securities 951,005 938,166 99 Lstar Securities 835,508 824,632 88 Lvii 1,627,912 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 1 Marathon Clo Ltd 1,250,000 1,244,531 1,2 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 45 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 25 Monroe Capital Clo <	31,605	2,297	433,902
Lstar Securities 849,280 849,762 88 Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 95 Lstar Securities 835,508 824,632 85 Lvii 1,627,912 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 12 Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 9 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 577,500 55	28,061	1,132	229,193
Lstar Securities 416,474 790,492 44 Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 96 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 88 Lvii 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,23 Marathon Clo Ltd 1,000,000 978,700 9 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 28 Monroe Capital Clo 600,000 577,500 59	40,787	2,505	843,291
Lstar Securities 675,452 666,913 66 Lstar Securities 1,002,936 992,728 93 Lstar Securities 951,005 938,166 93 Lstar Securities 835,508 824,632 83 Lvii 1,627,912 1,627,912 1,63 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,23 Marathon Clo Ltd 1,000,000 978,700 9 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 44 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 28 Monroe Capital Clo 600,000 577,500 59	08,144	846	408,991
Lstar Securities 1,002,936 992,728 98 Lstar Securities 951,005 938,166 99 Lstar Securities 835,508 824,632 88 Lvii 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 12 Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 44 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 577,500 55	62,787	1,383	664,170
Lstar Securities 951,005 938,166 99 Lstar Securities 835,508 824,632 88 Lvii 1,627,912 1,627,912 1,62 Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 11 Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 44 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 577,500 55	80,370	2,053	982,423
Lstar Securities 835,508 824,632 8 Lvii 1,627,912 1,627,912 1,6 Lvii 1,000,000 1,042,500 1,0 Magellan Midstream 100,000 99,875 1 Marathon Clo Ltd 1,250,000 1,244,531 1,2 Marathon Clo Ltd 1,000,000 978,700 9 Mcf Clo Llc 350,000 334,600 3 Micron Technology 500,000 476,875 4 Mid State Trust 375,685 385,547 4 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 577,500 55	35,246	1,947	937,193
Lvii 1,627,912 1,627,912 1,6 Lvii 1,000,000 1,042,500 1,0 Magellan Midstream 100,000 99,875 1: Marathon Clo Ltd 1,250,000 1,244,531 1,2 Marathon Clo Ltd 1,000,000 978,700 9 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 45 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 26 Monroe Capital Clo 600,000 577,500 55	26,535	1,710	828,245
Lvii 1,000,000 1,042,500 1,00 Magellan Midstream 100,000 99,875 13 Marathon Clo Ltd 1,250,000 1,244,531 1,23 Marathon Clo Ltd 1,000,000 978,700 97 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 28 Monroe Capital Clo 600,000 577,500 58	30,972	1,710	1,631,120
Magellan Midstream 100,000 99,875 1: Marathon Clo Ltd 1,250,000 1,244,531 1,2: Marathon Clo Ltd 1,000,000 978,700 9' Mcf Clo Llc 350,000 334,600 3' Micron Technology 500,000 476,875 4' Mid State Trust 375,685 385,547 4' Molex Electronics 283,000 266,678 2' Monroe Capital Clo 600,000 577,500 5'		4,263	1,004,263
Marathon Clo Ltd 1,250,000 1,244,531 1,22 Marathon Clo Ltd 1,000,000 978,700 97 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 25 Monroe Capital Clo 600,000 577,500 55	13,124	1,681	114,805
Marathon Clo Ltd 1,000,000 978,700 99 Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 29 Monroe Capital Clo 600,000 577,500 59	36,263	4,273	1,240,535
Mcf Clo Llc 350,000 334,600 33 Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 23 Monroe Capital Clo 600,000 577,500 55	75,050	5,880	980,930
Micron Technology 500,000 476,875 43 Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 23 Monroe Capital Clo 600,000 577,500 55	28,531	2,459	330,990
Mid State Trust 375,685 385,547 44 Molex Electronics 283,000 266,678 28 Monroe Capital Clo 600,000 577,500 59	26,250	10,938	437,188
Molex Electronics 283,000 266,678 28 Monroe Capital Clo 600,000 577,500 55	05,853	2,192	408,044
Monroe Capital Clo 600,000 577,500 59		6,998	295,814
·	88,816 93,472	4,921	598,393
	62,970	3,665	966,635
	69,537	108	169,645
	05,609	193	1,005,802
•	60,518	1,990	362,508
	34,773 40,602	5,530 2,464	240,303
	49,693	2,464	252,156
	94,988	839	395,827
	20,713 66,516	1,199 19	721,911 166,535

	Quantity			Accrued Interest	
Asset Class / Security Type / Issuer	Shares or Units	Cost	Market Value	or Dividends	Mkt + Accrued
Northern Group	400,000	400,000	549,536	1,209	550,745
Nrpl Trust Series	902,139	899,743	899,008	620	899,629
Numericable	700,000	691,250	680,750	15,867	696,617
Nzcg Funding Ltd	500,000	493,760	500,000	2,122	502,122
Nzcg Funding Ltd Nzcg Funding Ltd	750,000	750,000	750,000	2,605	752,605
Nzcg Funding Ltd Nzcg Funding Ltd	1,000,000	997,500	984,670	7,159	991,829
Nzcg Funding Ltd	500,000	473,325	500,000	2,430	502,430
Octagon Investment	800,000	774,800	777,456	5,952	783,408
Pfp lii	1,000,000	1,000,000	992,120	1,150	993,270
Race Point Clo Ltd	500,000	500,000	492,465	791	493,256
Rait Cre Cdo Ltd	679,829	468,483	679,829	165	679,994
	1,000,000	985,000	979,050	4,692	983,742
Rampart Clo Ltd				4,032	(819,375)
Rbc Repo Rbc Repo	(819,375)	(819,375)	(819,375)	-	(712,250)
	(712,250)	(712,250)	(712,250)	- 960	
Republic Of Kenya	650,000	681,888	601,003	869 1 508	601,872
Resource Capital Rockwall Cdo	1,000,000	1,000,000	915,770	1,598	917,368
	496,462	466,674	487,312	736	488,048
Sammons Fin Group	750,000 635,000	750,000	901,020	11,083	912,103
Sprint Communication	625,000	630,063	654,369	14,583	668,952
Sprint Nextel	150,000	157,781	159,750	1,725	161,475
Sters Funding Ltd	488,362	433,741	477,169	208	477,377
Store Master Funding	497,083	496,825	485,725	633	486,358
Sunco Logistics	850,000	840,281	954,431	4,215	958,646
TVA	500,000	507,115	586,785	6,257	593,042
T V A	330,000	399,188	458,908	4,434	463,342
Teachers Insur	700,000 250,000	699,349	785,680	10,099 2,543	795,779 230,743
Telos Clo Ltd		242,500	228,200	· ·	
Tenet Healthcare	500,000	497,500	493,750	1 292	493,752
Ticc Clo Llc	250,000	251,000	248,590	1,382	249,972
Treman Park Clo	500,000	472,755	500,000	1 500	500,000
Turbine Engine	701,440	698,577	701,440	1,598	703,037
U S Treas Bond Strip	6,000,000	2,677,719	3,004,440	- 076	3,004,440
U S Treasury I P S	1,518,794	1,548,295	1,553,013	876	1,553,889
U S Treasury I P S	2,702,088	2,642,896	2,729,244	1,550	2,730,795
U S Treasury I P S	1,480,856	1,589,119	1,591,268	8,543	1,599,811
U S Treasury I P S	1,261,507	1,421,748	1,458,302	6,528	1,464,831
U S Treasury I P S	1,386,700	1,459,728	1,454,357	8,800	1,463,157
U S Treasury I P S	70,082	99,186	102,634	498	103,132
U S Treasury I P S	967,305	1,340,839	1,338,305	7,377	1,345,683
U S Treasury Note	1,738,000	1,732,387	1,759,256	2,545	1,761,801
US Foods Inc	450,000	450,000	461,250	294	461,544
Vector Group Ltd	500,000	529,500	520,625	14,639	535,264
Venture Cdo Ltd	250,000	245,938	244,773	817	245,590
Wells Fargo	4,992,914	503,241	491,552	7,240	498,792
Wells Fargo Tr	5,339,516	498,188	499,886	6,781	506,666
Whitehorse Viii	1,100,000	988,350	1,075,052	5,024	1,080,076
Willis Engine Secur	371,138	370,210	371,138	907	372,045
Wilton Re Finance	625,000	634,063	642,050	9,282	651,332
Wyndham Worldwide	-	-	-	561	561
Wynn Las Vegas	500,000	500,000	483,750	9,167	492,917
Yamana Gold Inc	940,000	904,687	924,772	21,456	946,228
Ziggurat Clo Ltd	700,000	655,200	612,962	6,392	619,354
Subtotal - Fixed Income	133,023,410 \$	108,385,620	\$ 111,217,416	\$ 702,894	\$ 111,920,310

	Quantity	Quantity			Accrued Interest					
Asset Class / Security Type / Issuer	Shares or Units Cost		Cost	N	Market Value	or Dividends		Mkt + Accrued		
Real Estate Commingled Fund										
UBS Trumbull Property Fund	734	\$	10,637,972	\$	15,502,052	\$	-	\$	15,502,052	
UBS Growth & Income Fund	4,052		33,182,019		43,470,098		-		43,470,098	
Dune Real Estate Partners	2,771,176		2,771,176		2,771,176				2,771,176	
Subtotal - Real Estate Commingled	2,775,962	\$	46,591,166	\$	61,743,325	\$	-	\$	61,743,325	
Private Equity										
North Sky - PEP IV Fund		\$	5,989,329	\$	7,888,030	\$	-	\$	7,888,030	
Franklin Park Private Equity Fund			15,963,781		18,082,444		-		18,082,444	
RWI Group - Ventures I Capital Ltd Ptnr			246,001		246,000		-		246,000	
RWI Group - Ventures II Capital Ltd Ptnr			1,142,347		607,750		-		607,750	
VIA Fund III			1,528,262		1,502,671		-		1,502,671	
Subtotal - Private Equity	-	\$	24,869,720	\$	28,326,896	\$	-	\$	28,326,896	
Private Equity / Alternative										
TCW		\$	4,950,000	\$	4,881,198	\$	-	\$	4,881,198	
Parametric Def Eq Fund		\$	19,500,000	\$	20,292,392			\$	20,292,392	
Subtotal - Private Equity / Alternative	-	\$	24,450,000	\$	25,173,589	\$	-	\$	25,173,589	
Opportunistic										
Corvex		\$	16,000,000	\$	13,445,278	\$	-	\$	13,445,278	
Entrust			8,274,813		8,652,084		-		8,652,084	
Subtotal - Opportunistic		\$	24,274,813	\$	22,097,362	\$	-	\$	22,097,362	
	464 526 242		026 562 402		056 440 600		024.422		057.042.412	
TOTAL FUND	161,530,343	\$	836,563,489	\$	956,110,682	\$	931,430	\$	957,042,113	

ACTUARIAL SECTION

December 19, 2016

Ms. Jill E. Schurtz Executive Director St. Paul Teachers' Retirement Fund Association 1619 Dayton Avenue, Room 309 St. Paul, MN 55104-6206

Dear Ms. Schurtz:

We are pleased to present the report of the actuarial valuation of the St. Paul Teachers' Retirement Fund Association ("Fund") as of July 1, 2016. This report provides, among other things, the required annual contribution rate of the Fund for the Plan Year commencing July 1, 2016 and ending on June 30, 2017.

The valuation was based upon information furnished by the Fund staff, concerning Retirement Fund benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. Their efforts in furnishing the materials needed are gratefully acknowledged. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by the Fund.

The report has been prepared at the request of the Fund's Board of Trustees in accordance with Section 356.215 of the Minnesota Statutes as well as the Standards for Actuarial Work established by the State of Minnesota Legislative Commission on Pensions and Retirement. To the best of our knowledge, this report is complete and accurate, and has been prepared in accordance with generally accepted actuarial principles and practice. This report is intended for use by the Fund and those determined or approved by the Fund's Board of Trustees. This report may be provided to parties other than the Fund only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The required contribution rate of 22.44% of pay shown on page 5 was designed to comply with Minnesota Statutes. Users of this report should be aware that contributions made at that rate do not guarantee benefit security. Please note that given the importance of benefit security to any retirement system, we encourage all retirement systems to consider implementing funding programs that provide for contributions in excess of the levels listed in their valuation report.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section 4 of this report. This report does not include a robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment. We encourage a review and assessment of investment and other significant risks that may have a material effect on the plan's financial condition.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of such future measurements.

This report should not be relied on for any purpose other than the purpose described in this report. Determinations of financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the Legislative Commission on Pensions and Retirement (LCPR), and the Board of Trustees. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods, and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis of this report. The Fund is solely responsible for communicating to GRS any changes required thereto.

GRS reviewed the investment return rate assumption in the 2012 Experience Study and recommended an assumed rate of return in the range of 7.04% to 7.98% per year. The impact of using an assumed rate of return of 7.5% was shown in the 2012 valuation report, and, at the Fund's request, updated estimates were provided to the Fund earlier this year. We commend the Fund for actively reviewing the investment return assumption, as the funded status of the plan may be overstated by the current prescribed assumptions. We recommend that the Fund continue to perform projections which include pessimistic scenarios such as investment return lower than assumed, longevity better than expected, etc.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. Bonita J. Wurst and James D. Anderson are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

We will be pleased to review this report with you at your convenience.

Respectfully submitted,

Bonita J. Wurst, ASA, EA, FCA, MAAA

Bonita J. Wurst

James D. anclesson

James D. Anderson, FSA, EA, MAAA

SUMMARY OF VALUATION RESULTS

		lly 1, 2015 Valuation	July 1, 2016 Valuation		
A.	CONTRIBUTIONS % OF PAYROLL (Table 11)				
	1. Statutory Contributions - Chapter 354A	20.66%		21.52%	
	2. Required Contributions - Chapter 356	 22.26%		22.44%	
	3. Sufficiency / (Deficiency)	(1.60%)		(0.92%)	
В.	FUNDING RATIOS				
	1. Accrued Liability Funding Ratio				
	a Current Assets (Table 1)	\$ 999,736	\$	1,007,360	
	b. Actuarial Accrued Liability (Table 9)	 1,596,770		1,592,570	
	c. Funding Ratio	62.61%		63.25%	
	2. Projected Benefit Funding Ratio (Table 8)				
	a. Current and Expected Future Assets	\$ 1,758,646	\$	1,741,583	
	b. Current and Expected Future Benefit Obligations	 1,833,521		1,815,411	
	c. Funding Ratio	95.92%		95.93%	
C.	PLAN PARTICIPANTS				
	1. Active Members				
	a. Number (Table 3)	3,597		3,455	
	b. Projected Annual Earnings	\$ 280,488	\$	271,781	
	c. Average Annual Earnings (Projected dollars)	\$ 73,704	\$	76,094	
	d. Average Age	44.4		44.8	
	e. Average Service	12.1		12.7	
	f. Members on Leave of Absence	159		79	
	2. Others				
	a. Service Retirements (Table 4)	3,277		3,363	
	b. Disability Retirements (Table 5)	33		32	
	c. Survivors (Table 6)	323		328	
	d. Deferred Retirements (Table 7)	1,892		2,020	
	e. Terminated Other Non-Vested (Table 7)	 1,981		2,915	
	f. Total - Others	7,506		8,658	
	3. Grand Total $(1.a + 1.f + 2.f)$	11,262		12,192	

ACCOUNTING BALANCE SHEET AS OF JUNE 30, 2016

			Market Value	Cost Value		
A. ASSETS						
1. Cash, Equivalents, Short-Term Securities		\$	45,741	\$	45,741	
2. Investments						
a. Fixed Income			179,666		173,673	
b. Equity			585,065		488,791	
c. Real Estate			71,970		53,389	
d. Alternative			75,598		75,518	
3. Other Assets			3,782		3,782	
B. TOTAL ASSETS		\$	961,822	\$	840,894	
C. AMOUNTS CURRENTLY PAYABLE		\$	2,156	\$	2,156	
D. ASSETS AVAILABLE FOR BENEFITS						
1. Member Reserves		\$	178,135	\$	178,135	
2. Employer Reserves			781,531		660,603	
3. Total Assets Available for Benefits		\$	959,666	\$	838,738	
E. TOTAL AMOUNTS CURRENTLY PAYABLE AND						
ASSETS A VAILABLE FOR BENEFITS		\$	961,822	\$	840,894	
F. DETERMINATION OF ACTUARIAL VALUE OF ASSETS						
1. Market Value of Assets Available for Benefits (D.3)		\$	959,666			
2. Unrecognized Asset Returns						
a. June 30, 2016 \$	(77,451)					
b. June 30, 2015	(55,629)					
c. June 30, 2014	95,762					
d. June 30, 2013	46,697					
3. UAR Adjustment: $.80 * 2(a) + .60 * 2(b) + .40 * 2(c) + .20 * 2(d)$			(47,694)			
4. Actuarial Value of Assets: (F.1 - F.3)		\$	1,007,360			
DERIVATION OF OTHER ASSETS *	Mark	et Valu	<u>ie</u>			
Accounts Receivable						
Employer Contribution	\$	119				
Employee Contribution		88				
Service Purchases Receivable		36				
Pensions Receivable		5				
State Contributions		838				
Real Estate Income Receivable		-				
Commission Recapture Receivable		1				
Interest Receivable		710				
Dividend Receivable		222				
Misc. Receivable		-				
Escrow Funds receivable		0				
Sale of Securities	Φ.	1,640				
Total Accounts Receivable	\$	3,659				
Fixed Assets	<u> </u>	123				
Total Other Assets	\$	3,782				

^{*}Numbers may not add due to rounding.

CHANGE(S) IN ASSETS AVAILABLE FOR BENEFITS AS OF JUNE 30, 2016

	Market Value		Cost Value		
A. ASSETS AVAILABLE AT BEGINNING OF PERIOD	\$	1,014,969	\$	866,990	
B. OPERATING REVENUES					
Member Contributions	\$	18,538	\$	18,538	
Employer Contributions	φ	26,433	ψ	26,433	
Supplemental Contributions		10,665		10,665	
Reemployed Annuitant Employer Contributions		130		130	
Investment Income		14,033		14,033	
6. Investment Expenses		(3,624)		(3,624)	
7. Net Realized Gain / (Loss)		18,569		18,117	
8. Other		0		0	
9. Net Change in Unrealized Gain / (Loss)		(27,503)		0	
10. Total Operating Revenue	\$	57,241	\$	84,292	
10. Total Operating Revenue	Ф	37,241	Φ	04,292	
C. OPERATING EXPENSES					
1. Service Retirements	\$	99,671	\$	99,671	
2. Disability Benefits		590		590	
3. Survivor Benefits		10,906		10,906	
4. Refunds		628		628	
5. Administrative Expenses		749		749	
6. Total Operating Expenses	\$	112,544	\$	112,544	
D. OTHER CHANGES IN RESERVES	\$	0	\$	0	
E. ASSETS AVAILABLE AT END OF PERIOD	\$	959,666	\$	838,738	
		D) /			
F. DETERMINATION OF CURRENT YEAR UNRECOGNIZED ASSET	I RETU	RN			
1. Average Balance			Φ	1.014.060	
(a) Assets available at BOY			\$	1,014,969	
(b) Assets available at EOY			•	959,666	
(c) Average balance {[(a) + (b) - Net Investment Income] / 2}			\$	986,580	
{Net investment income: B.5+B.6+B.7+B.9}				# 0.004	
2. Expected Return: .080 * F.1				78,926	
3. Actual Return			Ф	1,475	
4. Current Year Gross Asset Gain/(Loss): F.3 - F.2			\$	(77,451)	

ACTUARIAL BALANCE SHEET AS OF JULY 1, 2016

A.	CURRENT ASSETS (TABLE 1; Line F.4)	\$ 1,007,360
В.	EXPECTED FUTURE ASSETS 1. Present Value of Expected Future Statutory Supplemental Contributions*	\$ 511,382
	 Present Value of Future Normal Costs Total Expected Future Assets 	\$ 222,841 734,223
C.	TOTAL CURRENT AND EXPECTED FUTURE ASSETS	\$ 1,741,583
D.	TOTAL CURRENT AND EXPECTED FUTURE BENEFIT OBLIGATIONS	\$ 1,815,411
E.	CURRENT AND FUTURE UNFUNDED ACTUARIAL LIABILITY (D - C)	\$ 73,828

^{*} Includes the effect of scheduled employee and employer contribution increases and supplemental state contributions.

DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) AND SUPPLEMENTAL CONTRIBUTION RATE AS OF JULY 1, 2016

		Actuarial Present Value of Projected Benefits		Actuarial Present Value of Future Normal Costs		Actuarial Accrued Liability	
Α.	DETERMINATION OF ACTUARIAL						
	ACCRUED LIABILITY (AAL)						
	1. Active Members*						
	a. Retirement Benefits	\$	615,473	\$	160,949	\$	454,524
	b. Disability Benefits	\$	13,101	\$	5,054	\$	8,047
	c. Surviving Spouse and Child Benefits	\$	8,753	\$	2,992	\$	5,761
	d. Vested Withdrawals	\$	34,576	\$	39,925	\$	(5,349)
	e. Refund Liability Due to Death or Withdrawal	\$	2,874	\$	13,921	\$	(11,047)
	f. Total	\$	674,777	\$	222,841	\$	451,936
	2. Deferred Retirements	\$	81,904	\$	0	\$	81,904
	3. Former Members without Vested Rights	\$	5,903	\$	0	\$	5,903
	4. Annuitants	\$	1,052,827	\$	0	\$	1,052,827
	5. Total	\$	1,815,411	\$	222,841	\$	1,592,570
B.	DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)						
	1. Actuarial Accrued Liability (A.5)					\$	1,592,570
	2. Current Assets (Table 1; Line F.4)					\$	1,007,360
	3. Unfunded Actuarial Accrued Liability (B.1 - B.2)					\$	585,210
C.	DETERMINATION OF SUPPLEMENTAL CONTRIBUTION RATE						
	1. Present Value of Future Payrolls Through the						
	Amortization Date of June 30, 2042 [#]					\$	4,399,371
	2. Supplemental Contribution Rate (B.3 / C.1)						13.30%

^{*}Includes members on leave of absence.

 $^{^{\#}} Calculated \ using \ 8.0\% \ annual \ investment \ return \ rate.$

CHANGES IN UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) AS OF JULY 1, 2016

(dollars in thousands)

A.	UAAL AT BEGINNING OF YEAR	\$ 597,034
B.	CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING	
	Normal Cost and Expenses	\$ 26,345
	2. Contributions	\$ (55,766)
	3. Interest	\$ 46,556
	4. Total	\$ 17,135
C.	EXPECTED UAAL AT END OF YEAR (A + B.4)	\$ 614,169
D.	INCREASE / (DECREASE) DUE TO ACTUARIAL LOSSES / (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED	
	1. Age and Service Retirements	\$ 305
	2. Disability Retirements	(55)
	3. Death-in-Service Benefits	(39)
	4. Withdrawals	(4,434)
	5. Salary Increases	(11,380)
	6. Investment Income	14,084
	7. Mortality of Annuitants	(3,021)
	8. Other Items	 (9,820)
	9. Total	\$ (14,360)
E.	UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTIONS (C + D.9)	\$ 599,809
F.	CHANGE IN UAAL DUE TO PLAN AMENDMENTS	-
G.	CHANGE IN UAAL DUE TO CHANGES IN ACTUARIAL ASSUMPTIONS	(14,599)
H.	UAAL AT END OF YEAR (E + F + G)	\$ 585,210

DETERMINATION OF CONTRIBUTION SUFFICIENCY AS OF JULY 1, 2016 (dollars in thousands)

			Dollar Amount	
A. STATUTORY CONTRIBUTION	ONS - CHAPTER 354A			
1. Employee Contributions		7.50%	\$	20,393
2. Employer Contributions				
a. Regular		6.25%		16,999
b. Additional		3.84%		10,436
3. Supplemental Contribution	on			
a. 1996 Legislation		0.31%		838
b. 1997 Legislation		1.04%		2,827
c. 2014 Legislation		2.58%		7,000
4. Total		21.52%	\$	58,493
 Normal Cost a. Retirement Benefits b. Disability Benefits c. Surviving Spouse and d. Vested Withdrawals e. Refund Liability Due f. Total Supplemental Contribution Allowance for Administra 	to Death or Withdrawal	6.53% 0.19% 0.11% 1.50% 0.54% 8.87% 13.30% 0.27%	\$	17,741 511 310 4,070 1,466 24,098 36,147 734
4. Total	1	22.44%	\$	60,979
C. CONTRIBUTION SUFFICIEM	NCY / (DEFICIENCY) (A.4 - B.4)	(0.92%)		(2,486)
Projected Annual Payroll for Fisca	al Year Beginning on the Valuation Da	ite:	\$	271,781

I. ACTUARIAL COST METHOD

An Actuarial Cost Method is a set of techniques used by the actuary to develop contribution levels under a retirement plan. The Actuarial Cost Method used in this valuation for all purposes is the Entry Age Actuarial Cost Method. Under this Method, a Normal Cost is developed by amortizing the actuarial value of benefits expected to be received by each active participant (as a level percentage of pay) over the total working lifetime of that participant, from hire to termination. Years of Service for valuation purposes was provided by the Retirement Fund. Age as of the valuation date was calculated based on the dates of birth provided by the Retirement Fund. Entry Age for valuation purposes was calculated as the age on the valuation date minus the years of service on the valuation date.

To the extent that current assets and future Normal Costs do not support participants' expected future benefits, an Unfunded Actuarial Accrued liability ("UAAL") develops. The UAAL is amortized over the closed statutory amortization period ending June 30, 2042 using level percent-of-payroll assuming payroll increases of 4.00% per annum. The total contribution developed under this method is the sum of the Normal Cost and the payment toward the UAAL.

II. CURRENT ACTUARIAL ASSUMPTIONS

The assumptions were last updated for the July 1, 2013 valuation as a result of an experience study during the five-year period of July 1, 2006 to June 30, 2011, as well as a legislated change to the investment return assumption effective July 1, 2015.

A. Demographic Assumptions

Mortality:

- 1. Healthy Mortality*:
 - a. Male: RP-2000 Combined Mortality Table for males projected with Scale AA to 2020 set back 1 year
 - b. Female: RP-2000 Combined Mortality Table for females projected with Scale AA to 2020 set back 3 years
- 2. Disabled Mortality:
 - a. Male: RP-2000 Disabled Life Mortality Table for males
 - b. Female: RP-2000 Disabled Life Mortality Table for females

^{*} Mortality rates were adjusted to include margin for future mortality improvement as described in the table name above.

Deaths Expressed as the Number of Occurrences per 10,000:

		Healthy Disabled Mortality Mortality		
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
20	2	1	226	75
20	2 2	1	226	75 75
22	2	1	226	75 75
	3	1		
23	3		226	75 75
24	3	1	226	75
25	3	1	226	75
26	3	1	226	75
27	3	1	226	75
28	3	2	226	75
29	4	2	226	75
30	4	2	226	75
31	4	2	226	75
32	5	2	226	75
33	5	2	226	75
34	6	3	226	75
25	6	2	226	75
35	6	3	226	75 75
36	7	3	226	75 75
37	8	4	226	75
38	8	4	226	75
39	9	4	226	75
40	9	4	226	75
41	9	5	226	75
42	10	5	226	75
43	10	5	226	75
44	10	6	226	75 75
• • •	10	O	1 220	15

Deaths Expressed as the Number of Occurrences per 10,000:

		althy tality	Disabled Mortality		
<u>Age</u>	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>	
45	11	6	226	75	
46	12	7	238	82	
47	12	8	251	90	
48	13	8	264	98	
49	13	9	277	106	
50	1.4	9	200	115	
50	14		290	115	
51	15	10	303	125	
52	17	11	316	135	
53	18	12	329	145	
54	19	13	342	155	
55	21	15	354	165	
56	25	17	367	176	
57	29	20	380	187	
58	33	23	393	197	
59	38	27	407	208	
60	43	31	420	218	
61	49	35	435	229	
62	49 57	40	450	241	
63	65	46	466	253	
64	76	53			
04	/6	53	483	266	
65	85	60	502	280	
66	96	69	522	296	
67	111	78	545	313	
68	124	88	569	332	
69	135	99	596	353	

Rates of Disability:

Disability Expressed as the Number of Occurrences per 10,000:

Age	Disability	Age	Disability
20	2	45	5
21	2	46	5
22	2	47	5
23	2	48	5
24	2	49	5
25	2	50	10
26	2	51	10
27	2	52	10
28	2	53	10
29	2	54	10
30	3	55	20
31	3	56	20
32	3	57	20
33	3	58	20
34	3	59	20
35	3	60	40
36	3	61	40
37	3	62	40
38	3	63	40
39	3	64	40
40	3		
41	3		
42	3		
43	3		
44	3		

Rates of Termination:

Nu	mber	of Tern	ninations
per	1,000	Active	Members

Years of	per 1,000 Active Members		
Service	Male	Female	
0	400	400	
1	180	180	
2	140	140	
3	100	100	
4	60	67	
5	50	59	
6	45	51	
7	41	43	
8	37	35	
9	33	31	
10	29	27	
11	25	23	
12	20	19	
13	20	15	
14	20	13	
15 & Over	20	13	

Rates of Retirement:

Retirements Expressed as the Number of Occurrences per 10,000:

Age	Basic Members Eligible for Rule of 90 Provision	Basic Members Not Eligible for Rule of 90 Provision	Male Coordinated Members Eligible for Rule of 90 Provision	Female Coordinated Members Eligible for Rule of 90 Provision	Male Coordinated Members Not Eligible for Rule of 90 Provision	Female Coordinated Members Not Eligible for Rule of 90 Provision
	01 > 0 1 1 0 /151011	110/151011	110/151011	110/10/10	01 > 0 1 1 0 (151011	01 / 0 1 1 0 110 110 11
55	5,000	800	3,500	3,500	700	500
56	5,000	1,300	3,500	3,500	700	500
57	4,000	1,300	3,500	3,500	700	500
58	4,000	1,800	3,500	3,500	700	500
59	3,500	1,800	3,500	3,500	700	500
60	3,500	2,000	3,500	3,500	1,100	800
61	3,500	2,000	3,500	3,500	1,500	1,100
62	3,500	4,000	3,500	3,500	1,900	1,400
63	3,500	4,000	3,500	3,500	2,300	1,900
64	4,000	4,000	3,500	4,000	2,700	2,400
65	5,000	5,000	3,500	5,000	3,100	3,500
66	3,000	5,000	3,500	5,000	3,500	3,500
67	3,000	5,000	3,500	5,000	3,500	3,500
68	3,000	5,000	3,500	5,000	3,500	3,500
69	3,000	5,000	3,500	5,000	3,500	3,500
70 & Over	10,000	10,000	10,000	10,000	10,000	10,000

B. Economic Assumptions

Investment Return Rate: 8.00%

Cost-of-Living Increases: 1.00% per year through 2054; 2.00% beginning 2055; 2.50% beginning

2066.

Wage Inflation: 4.00% per year

Future Salary Increases: In addition to the age-based rates shown below, during the first 15 years of

employment, a service-based component of 0.20% x (15-T), where T is

completed years of service, is included in the salary increase used.

Annual Salary Increases

	Ultimate Rate of	Ultimate Rate of			
	Annual Salary		Annual Salary		
Age	Increases	Age	Increases		
<22	5.90%	45	4.75%		
23	5.85	46	4.70		
24	5.80	47	4.65		
		48	4.60		
25	5.75	49	4.55		
26	5.70				
27	5.65	50	4.50		
28	5.60	51	4.45		
29	5.55	52	4.40		
		53	4.35		
30	5.50	54	4.30		
31	5.45				
32	5.40	55	4.25		
33	5.35	56	4.20		
34	5.30	57	4.15		
		58	4.10		
35	5.25	59	4.05		
36	5.20				
37	5.15	60 & Over	4.00		
38	5.10				
39	5.05				
40	5.00				
41	4.95				
42	4.90				
43	4.85				
44	4.80				

Asset Value: The actuarial value of assets is smoothed by using a five-year

average market value.

C. Other Assumptions

Commencement:

Marital Status: It is assumed that 75% of male members and 60% of female

members have an eligible spouse. The male spouse is assumed to be two years older than the female spouse. Married members are

assumed to have two dependent children.

Deferred Benefit Basic Plan members who terminate vested are assumed to

commence benefits at age 61. Coordinated Plan members are assumed to commence benefits at age 62. If the member is already past the assumed deferral age, the member is assumed to

commence benefits one year from the valuation date.

Administrative Expenses: Prior year administrative expenses (excluding investment

expenses) are expressed as a percentage-of-payroll and then

applied to current projected payroll.

Allowance for Combined Service Annuity:

7.00% load on liabilities for active members hired before July 1,

1989

2.00% load on liabilities for active members hired after June 30,

1989; and

30.00% load on liabilities for former members.

The LCPR Actuary has recently recommended changes to these assumptions, expected to be effective at a later date, pending

approval.

Missing Salary and Salary

Minimums:

Active members with reported salaries of \$100 or less were assumed to have the average non-zero active salary. Active members with salaries less than those reported at the prior

valuation date are valued using their prior salary amount. Active members who have been hired within one year of the valuation date have had their pay annualized by dividing by months of service credited, not to exceed the average non-zero active salary. For members on leave of absence at valuation date who were not

on leave at the prior valuation date, the prior year's valuation pay

was used.

Missing Data for Deferred

Vested Members:

Deferred vested members without a reported benefit and without salary information were assumed to have a final average salary of

\$40,000.

Decrement Timing: Retirement and Termination: end of valuation year – consistent

with retirements and terminations occurring at the end of the

school year.

Death and Disability: middle of valuation year.

Valuation of Future Post-Retirement Benefit Increases: If the plan has reached the funding ratio threshold required to pay a different benefit increase, Minnesota Statutes require the benefit increase rate to be reflected in the liability calculations. If the plan has not yet reached the funding ratio threshold required to pay a benefit increase, Minnesota Statutes require a projection to be performed to determine the expected attainment of the funding ratio thresholds, and the expected payment of benefit increases must be reflected in the liability calculations.

Supplemental Contributions:

1996 legislation provides for a variable amortization aid contribution paid annually on July 15. We assumed the annual amortization aid contribution will equal \$838,000, which was the actual contribution for the most recent fiscal year. Additionally, according to 1997 legislation, annual supplemental contributions currently equal to \$2,827,000 are scheduled to be paid on October 1. According to 2014 legislation, the State of Minnesota will make annual additional supplemental contributions of \$7,000,000 on October 1. The contributions described herein will continue until the plan is 100% funded or until June 30, 2042, whichever occurs earlier.

Projected Annual Payroll Calculation:

The census data as of July 1, 2016 reflects retirements and terminations occurring during the months of May and June; however, it does not necessarily reflect the replacements hired to fill their positions who may have hire dates in August and September. We assumed that May and June retirements are replaced by members coming in at the B.A. entry salary level of \$44,759; and the Projected Annual Payroll for the fiscal year ending June 30, 2017 includes this replacement salary amount.

APPENDIX – State Auditor's Report

STATE OF MINNESOTA

Office of the State Auditor



Rebecca Otto State Auditor

The Office of the State Auditor audits the financial statements of the SPTRFA. However, their report for the most recent fiscal year was still pending completion at the time this report went to print. The full report will be published on the website of the Minnesota Office of the State Auditor http://www.osa.state.mn.us

ST. PAUL TEACHERS' RETIREMENT FUND ASSOCIATION ST. PAUL, MINNESOTA

FOR THE YEAR ENDED JUNE 30, 2016