
STATE UNIVERSITIES RETIREMENT SYSTEM

STANDARD INVESTMENT REPORTS

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As of December 31, 2019

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STATE UNIVERSITIES RETIREMENT SYSTEM

RECONCILIATION OF MARKET VALUES

July 1, 2019 to December 31, 2019

(\$ in thousands)

<u>Investment</u>	<u>7/1/2019 Market Value</u>	<u>Net Contributions</u>	<u>Income</u>	<u>Net Appreciation</u>	<u>12/31/2019 Market Value</u>
Adams Street 2018 Global Fund	11,495	4,079	151	640	16,364
Adams Street 2017 Global Fund	37,975	3,606	219	1,016	42,816
Adams Street 2016 Global Fund	82,449	2,730	420	3,822	89,421
Adams Street 2015 Global Fund	94,495	(350)	350	7,322	101,816
Adams Street 2014 Global Fund	97,153	(292)	293	6,008	103,161
Adams Street 2013 Global Fund	101,084	(338)	357	4,734	105,837
Adams Street 2012 Global Fund	78,693	(323)	397	3,306	82,072
Adams Street 2009 Global Offering	99,889	(241)	482	2,788	102,918
Adams Street 2008 Global Offering	90,882	(233)	525	2,054	93,228
Adams Street 2007 Global Opportunities	39,324	-	140	957	40,420
Adams Street Secondary Fund 5	14,290	(66)	103	202	14,529
Adams Street Global Opportunities Second	5,238	(11)	40	332	5,599
Adams Street 2004 Non-U.S. Fund	6,739	41	20	(292)	6,508
Adams Street Partnerships	28,473	(1,931)	170	(1,956)	24,756
Alinda Capital Partners	23,619	(67)	373	532	24,456
AQR Capital Management - BuyWrite Strategy	174,940	114,671	329	13,821	303,761
ARP Investments	-	100,000	-	-	100,000
Aspect Capital	-	94,897	103	(1,280)	93,720
Ativo Capital Management	294,553	-	3,381	14,174	312,108
Basis Investment Group Fund I	12,701	(677)	1,052	(296)	12,780
Blackstone Property Partners	200,000	(553)	1,627	3,376	204,449
Blackstone Property Partners Europe VI	-	2,567	(0)	30	2,596
Blue Vista Real Estate Partners IV	32,598	(1,267)	238	2,612	34,181
Brookfield Strategic Real Estate Partners II	30,103	(486)	1,220	577	31,414
Brookfield Strategic Real Estate Partners III	6,950	1,013	218	815	8,996
BTC Emerging Markets Fund	372,375	-	11	26,127	398,513
BTC International Equity Fund	1,126,442	-	34	78,470	1,204,946
BTC International Alpha Tilts Fund	541,335	-	5	33,839	575,179
BTC Global REIT Fund	424,581	(447,746)	17	23,148	0
Campbell & Company	-	95,000	-	(1,580)	93,420
Cash	229,561	(3,973)	1,643	592	227,823
Carlyle Property Investors	101,892	(472)	1,570	974	103,964
CastleArk Management	119,449	(118,459)	332	(1,307)	14
Channing Capital Management (SMID Value)	93,284	-	718	4,315	98,317
Colchester Local Markets Debt Fund	148,863	(377)	4,459	2,378	155,323
Credit Suisse Asset Management	-	95,000	9	-	95,009
Crow Holdings Realty Partners VII	23,712	(3,142)	509	601	21,680
Crow Holdings Realty Partners VIII	9,183	4,804	475	375	14,838
Denali Advisors	49,194	-	707	3,410	53,311
Dune Real Estate Fund II	24,867	(90)	151	91	25,018
Dune Real Estate Fund III	135,551	(477)	790	(3,761)	132,102
Dune Real Estate Fund IV	-	8,827	764	-	9,591
EARNEST Partners	175,210	-	1,100	14,644	190,954
Fairview Lincoln Fund I	64,194	3,696	2,801	1,238	71,930
Fidelity Institutional Asset Management	583,983	(614,086)	3,599	31,714	5,210
Franklin Templeton EMREFF	31,194	(47)	281	724	32,152
Franklin Templeton FTPREF	16,645	(53)	164	(83)	16,673
Franklin Templeton MDP RE 2015	44,756	234	1,094	1,010	47,093
Garcia Hamilton & Associates	334,164	133,488	6,630	2,342	476,624
Gladius - GVP	48,617	15,004	350	2,719	66,691
Gladius - Prime Broker GVP	45,426	181,600	931	9,658	237,615
Gladius - Prime Broker US Equity	91,573	(97,459)	477	5,479	70
Gladius - US Equity	366,570	(369,135)	1,677	888	(0)
GlobeFlex Capital	310,985	-	3,851	16,758	331,595
Heitman HART Fund	221,389	(826)	5,183	(3,001)	222,746
Invesco Balanced Risk Commodity Trust	239,376	(238,866)	1	(511)	0
JPMCB Strategic Property Fund	225,396	(989)	4,396	1,797	230,601
KKR Prisma Codlin Fund	27,598	(14,759)	56	297	13,192

STATE UNIVERSITIES RETIREMENT SYSTEM

RECONCILIATION OF MARKET VALUES

July 1, 2019 to December 31, 2019

(\$ in thousands)

<u>Investment</u>	<u>7/1/2019 Market Value</u>	<u>Net Contributions</u>	<u>Income</u>	<u>Net Appreciation</u>	<u>12/31/2019 Market Value</u>
LM Capital Group	174,570	237,316	5,110	255	417,251
Long Wharf RE Partners VI	-	5,317	292	(454)	5,156
Macquarie Infrastructure Partners II	21,127	(8,400)	145	1,403	14,275
Macquarie Infrastructure Partners III	55,651	(271)	416	2,657	58,453
Macquarie Infrastructure Partners IV	19,025	22,515	321	1,435	43,296
Matarin Capital Management	93,120	-	824	5,587	99,531
Mesirow Private Equity Fund VII-B (Co-Investment)	25,159	5,560	200	1,752	32,671
Mesirow Private Equity Special Fund B (FOO)	21,993	15,815	185	(203)	37,791
Mondrian Investment Partners	587,355	209	8,472	45,743	641,779
Muller & Monroe MPEFF	6,973	(38)	69	52	7,056
Muller & Monroe SURS Emerging Priv Eqty	57,203	1,845	545	5,379	64,972
Neuberger Berman	375,406	577,147	18,091	3,252	973,896
Neuberger Berman - PutWrite Strategy	359,149	216,379	621	34,819	610,968
Northern Trust Asset Management	1,273,725	(250,000)	11,637	118,502	1,153,864
Oaktree Real Estate Debt Fund II	11,672	(1,184)	104	663	11,255
PAAMCO Newport Monarch Fund	125,584	(105,738)	237	(785)	19,299
Pantheon Access (U.S.) 2018	7,740	9,150	391	54	17,335
Pantheon Access (U.S.) 2017	12,141	4,538	143	442	17,264
Pantheon Europe Fund III	9,920	-	65	629	10,615
Pantheon Europe Fund VI	26,187	(106)	234	775	27,091
Pantheon Europe Fund VII	33,571	(128)	212	2,398	36,053
Pantheon Global Secondary II	2,820	-	26	18	2,863
Pantheon Multi-Strategy Program 2014	70,169	2,969	386	5,484	79,007
Pantheon USA Fund VIII	95,092	(315)	795	1,892	97,464
Pantheon USA Fund IX	96,300	(28,449)	611	4,851	73,312
Pantheon Ventures Inc.	74,617	(14,160)	575	(513)	60,519
Parametric Clifton Cash Overlay	126,061	(60,000)	952	21,678	88,691
Piedmont Investment Advisors	694,706	-	7,752	60,124	762,582
PIMCO Commodity Alpha Fund	113,085	(876)	876	3,958	117,042
PIMCO Total Return	426,267	(432,658)	429	5,766	(196)
PIMCO Unconstrained Bond	512,524	455,777	20,021	(5,250)	983,072
Progress Emerging - Emerging Market Debt	140,072	(16,777)	3,461	1,466	128,222
Progress Emerging - Fixed Income	158,034	310,218	6,319	1,115	475,686
Progress Emerging - Non-U.S. Equity	228,102	139	2,003	11,164	241,409
Prudential Emerging Mkts Debt Blend	336,943	(662)	10,540	3,978	350,799
Pugh Capital Management	175,063	236,283	4,758	1,364	417,468
RhumbLine Advisers	1,089,317	-	10,526	103,033	1,202,877
RhumbLine Advisers TIPS	728,417	460,000	3,091	13,986	1,205,494
Rhumbline Long Duration	-	340,000	451	(7,024)	333,427
Smith Graham & Company	112,774	(115,304)	(193)	2,723	-
State Street Global Advisors	579,686	(593,107)	(144)	13,651	86
StepStone Real Estate	40,240	(130)	1,711	(1,424)	40,396
Strategic Global Advisors	330,226	-	3,342	15,393	348,961
T. Rowe Price	460,463	(80,000)	4,126	46,944	431,533
T. Rowe Price - Global Focused Growth	638,556	(70,000)	2,538	62,319	633,414
TorreyCove - Bregal Sagemount III	-	-	-	-	-
TorreyCove - Harvest Partners VIII	-	6,843	(276)	-	6,566
TCW MetWest	589,978	(600,070)	238	9,853	(0)
UBS Trumbull Property Fund	115,183	(20,947)	2,043	(1,472)	94,807
Wellington Management	618,364	-	5,373	51,218	674,956
Transition Account	625	66	48	(548)	190
Terminated Managers	693	(1)	(20)	3	676
Totals	19,642,654	(537,652)	197,663	968,745	20,271,410

STATE UNIVERSITIES RETIREMENT SYSTEM

INVESTMENT INCOME

July 1, 2019 through December 31, 2019

<u>INVESTMENT</u>	<u>DIVIDENDS</u>	<u>INTEREST</u>	<u>TOTAL</u>
Adams Street 2018 Global Fund	(35,039)	186,429	151,390
Adams Street 2017 Global Fund	-	218,837	218,837
Adams Street 2016 Global Fund	-	420,000	420,000
Adams Street 2015 Global Fund	-	350,000	350,000
Adams Street 2014 Global Fund	-	292,568	292,568
Adams Street 2013 Global Fund	-	356,692	356,692
Adams Street 2012 Global Fund	-	397,108	397,108
Adams Street 2009 Global Offering	-	481,769	481,769
Adams Street 2008 Global Offering	-	524,577	524,577
Adams Street 2007 Global Oppor Portfolio	-	139,582	139,582
Adams Street Global Secondary Fund 5	-	102,647	102,647
Adams Street Global Opportunities Secondary	-	40,205	40,205
Adams Street Non-U.S. Fund	-	20,399	20,399
Adams Street Partnerships	169,838	136	169,974
Alinda Capital Partners	-	372,577	372,577
AQR Capital Management - BuyWrite Strategy	-	329,004	329,004
Aspect Capital	-	102,686	102,686
Ativo Capital Management	3,341,566	39,158	3,380,724
Basis Investment Group Fund I	826,626	225,795	1,052,420
Blackstone Property Partners LP	-	1,626,850	1,626,850
Blackstone Real Estate Partners Europe	-	(151)	(151)
Blue Vista Real Estate Partners IV	-	237,779	237,779
Brookfield Strategic Real Estate Partners II	-	1,219,904	1,219,904
Brookfield Strategic Real Estate Partners III	-	218,000	218,000
BTC Emerging Markets	-	11,473	11,473
BTC International Equity	-	33,552	33,552
BTC International Alpha Tilts	-	4,816	4,816
Carlyle Property Investors	-	1,569,981	1,569,981
Cash	-	1,642,931	1,642,931
CastleArk Management	297,706	34,009	331,715
Channing Capital Management (SMID Value)	693,560	24,677	718,237
Colchester Local Markets Debt Fund	-	4,459,154	4,459,154
Credit Suisse Asset Management	-	9,077	9,077
Crow Holdings Realty Partners VII	-	509,104	509,104
Crow Holdings RP VIII	325,265	150,016	475,281
Denali Advisors	700,409	7,016	707,425
Dune Real Estate Fund II	-	150,598	150,598
Dune Real Estate Fund III	-	789,690	789,690
Dune Real Estate Fund IV	-	763,823	763,823
EARNEST Partners	1,060,020	40,346	1,100,366
Fairview Lincoln Fund I	2,552,555	248,443	2,800,997
Fidelity Institutional Asset Management	3,504,640	94,195	3,598,834
Franklin Templeton EMREFF	-	280,937	280,937
Franklin Templeton FTPREF	-	163,632	163,632
Franklin Templeton MDP RE 2015	-	1,094,289	1,094,289
Garcia Hamilton & Associates	-	6,630,106	6,630,106
Gladius - GVP	311,211	39,138	350,349
Gladius - Prime Broker GVP	(676,929)	1,607,809	930,881
Gladius - Prime Broker US Equity	(726,090)	1,202,904	476,814

STATE UNIVERSITIES RETIREMENT SYSTEM

INVESTMENT INCOME

July 1, 2019 through December 31, 2019

INVESTMENT	DIVIDENDS	INTEREST	TOTAL
Adams Street 2018 Global Fund	(35,039)	186,429	151,390
Gladius - US Equity	1,672,696	4,053	1,676,749
GlobeFlex Capital	3,793,206	57,993	3,851,199
Heitman America Real Estate Trust	-	5,183,147	5,183,147
Invesco Balanced Risk Commodity Trust	-	1,287	1,287
JPMCB Strategic Property Fund	-	4,396,176	4,396,176
KKR Prisma Codlin Fund	-	56,173	56,173
Long Wharf Real Estate Partners VI	-	292,066	292,066
LM Capital Group	-	5,110,082	5,110,082
Macquarie Infrastructure Partners II	-	144,560	144,560
Macquarie Infrastructure Partners III	-	415,656	415,656
Macquarie Infrastructure Partners IV	-	321,058	321,058
Matarin Capital Management	818,228	5,278	823,507
Mesirow Private Equity Fund VII-B	-	200,000	200,000
Mesirow Private Equity Special Fund B	-	185,000	185,000
Mondrian Investment Partners	8,411,433	60,437	8,471,870
Muller & Monroe MPEFF	11,812	57,580	69,392
Muller & Monroe SURS Emerging Private Equity	86,534	458,696	545,230
Neuberger Berman	-	18,091,118	18,091,118
Neuberger Berman - PutWrite Strategy	-	621,349	621,349
Northern Trust Asset Management	11,463,124	173,751	11,636,875
Oaktree Real Estate Debt Fund II	-	104,036	104,036
PAAMCO Newport Monarch Fund	-	237,405	237,405
Pantheon Access (U.S.) 2017	-	142,951	142,951
Pantheon Access (U.S.) 2018	-	391,167	391,167
Pantheon Europe Fund III	(1,827)	66,985	65,158
Pantheon Europe Fund VI	(3,969)	238,204	234,234
Pantheon Europe Fund VII	(2,443)	214,107	211,663
Pantheon Global Secondary II	-	25,838	25,838
Pantheon Multi-Strategy Program 2014	103,310	282,256	385,566
Pantheon USA VIII	123,520	671,484	795,004
Pantheon USA IX	139,497	471,106	610,603
Pantheon Ventures Inc.	564,094	10,628	574,723
Parametric Clifton Cash Overlay	-	951,507	951,507
Piedmont Investment Advisors	7,718,305	33,362	7,751,667
PIMCO Commodity Alpha Fund	-	876,446	876,446
PIMCO Total Return	-	429,339	429,339
PIMCO Unconstrained Bond	-	20,020,555	20,020,555
Progress Emerging - EMD	-	3,460,787	3,460,787
Progress Emerging - Fixed Income	-	2,714,497	2,714,497
Progress Emerging - Non-U.S. Equity	1,948,996	54,038	2,003,034
Prudential Emerging Mkts Debt Blend	-	10,540,176	10,540,176
Pugh Capital Management	-	4,758,448	4,758,448
Ramirez Asset Management	-	3,604,012	3,604,012
RhumbLine Advisers U.S. Equity	10,515,516	10,531	10,526,048
RhumbLine Advisers - TIPS	-	3,091,449	3,091,449
RhumbLine Long Duration	-	451,227	451,227
Smith Graham & Company	-	(193,353)	(193,353)
State Street Global Advisors	-	(143,913)	(143,913)

STATE UNIVERSITIES RETIREMENT SYSTEM

INVESTMENT INCOME

July 1, 2019 through December 31, 2019

<u>INVESTMENT</u>	<u>DIVIDENDS</u>	<u>INTEREST</u>	<u>TOTAL</u>
Adams Street 2018 Global Fund	(35,039)	186,429	151,390
StepStone Real Estate Global Partnership Fund II	-	1,710,841	1,710,841
Strategic Global Advisors	3,319,690	22,117	3,341,807
T. Rowe Price	4,103,902	22,514	4,126,417
T. Rowe Price Global Focused Growth	2,478,291	59,685	2,537,976
TCW MetWest	-	238,279	238,279
TorreyCove - Harvest Partners VIII	(276,247)	-	(276,247)
Terminated Managers	(72)	(2,428)	(2,500)
Transition Account	(2,936)	51,080	48,144
UBS Trumbull Property Fund	-	2,042,585	2,042,585
Wellington Management	5,310,861	62,575	5,373,436
Sub-Totals	74,640,861	123,022,247	197,663,108
Securities Lending	-	2,583,553	2,583,553
Totals	<u>74,640,861</u>	<u>125,605,800</u>	<u>200,246,661</u>

STATE UNIVERSITIES RETIREMENT SYSTEM

STATEMENT OF INVESTMENT EXPENSES

Fiscal Year 2020 to Date

July 1, 2019 through December 31, 2019

	<u>1st QTR</u>	<u>2nd QTR</u>	<u>TOTALS</u>	<u>BUDGET</u>	<u>BALANCE</u>
<u>Investment Managers:</u>					
Adams Street Partners	\$ 1,391,162	\$ 1,392,634	\$ 2,783,796	\$ 5,598,000	\$ 2,814,204
Alinda Capital Partners	34,171	33,273	67,444	700,000	632,556
AQR Capital Management	133,239	195,765	329,004	747,000	417,996
Aspect Capital Limited	-	102,686	102,686	-	(102,686)
Ativo Capital Management	198,212	206,040	404,252	831,000	426,748
Basis Investment	112,192	113,425	225,617	450,000	224,383
BlackRock Institutional Trust Company	390,314	397,736	788,049	2,084,000	1,295,951
Blackstone Property Partners LP	42,424	510,925	553,349	1,644,000	1,090,651
Blue Vista Real Estate Partners	117,154	120,334	237,488	525,000	287,512
Brookfield Strategic Real Estate Partners	229,000	238,000	467,000	1,050,000	583,000
Carlyle Property Partners	232,386	239,433	471,819	1,059,000	587,181
CastleArk Management	193,668	169,503	363,171	811,000	447,829
Channing Capital Management	124,011	128,101	252,112	518,000	265,888
Colchester Global Investors	186,709	190,345	377,054	747,000	369,946
Crow Holdings Realty Partners	140,905	153,896	294,801	825,000	530,199
Denali Advisors	60,815	64,574	125,389	258,000	132,611
Dune Real Estate	357,243	965,910	1,323,153	2,090,000	766,847
EARNEST Partners	306,163	390,966	697,129	397,000	(300,129)
Fairview Capital Partners	93,750	93,750	187,500	370,000	182,500
Fidelity Institutional Asset Management	216,203	264,825	481,027	858,000	376,973
Franklin Templeton	110,321	106,557	216,878	1,035,000	818,122
Garcia Hamilton & Associates	119,772	129,925	249,697	458,000	208,303
Gladius	553,440	314,680	868,119	2,370,000	1,501,881
GlobeFlex Capital	225,871	241,794	467,665	984,000	516,335
Heitman HART	407,574	418,063	825,637	1,732,000	906,363
Invesco Balanced Risk Commodity Trust	356,719	121,163	477,882	1,528,000	1,050,118
JP Morgan Strategic Property Fund	492,063	496,465	988,528	2,096,000	1,107,472
KKR Prisma	28,822	26,373	55,195	41,000	(14,195)
LM Capital Group	80,543	112,217	192,760	301,000	108,240
Long Wharf RE Partners	-	292,027	292,027	-	(292,027)
Macquarie Infrastructure Partners	346,669	389,735	736,404	2,027,000	1,290,596
Matarin Capital Management	160,138	169,023	329,161	679,000	349,839
Mesirow Financial Investment Management	192,500	192,500	385,000	866,000	481,000
Mondrian Investment Partners	362,653	384,210	746,863	1,954,000	1,207,137
Muller and Monroe	287,500	208,696	496,196	1,000,000	503,804

STATE UNIVERSITIES RETIREMENT SYSTEM

STATEMENT OF INVESTMENT EXPENSES

Fiscal Year 2020 to Date
July 1, 2019 through December 31, 2019

	<u>1st QTR</u>	<u>2nd QTR</u>	<u>TOTALS</u>	<u>BUDGET</u>	<u>BALANCE</u>
<u>Investment Managers:</u>					
Neuberger Berman	540,080	945,344	1,485,424	1,987,000	501,576
Northern Trust Asset Management	29,970	29,909	59,878	122,000	62,122
Oaktree Real Estate	53,423	50,572	103,995	300,000	196,005
PAAMCO	174,518	56,557	231,075	171,000	(60,075)
Pantheon Ventures	1,065,261	840,354	1,905,615	3,106,000	1,200,385
Parametric Clifton	101,552	159,752	261,304	334,000	72,696
Piedmont Investment Advisors	275,320	298,468	573,788	1,085,000	511,212
PIMCO	1,219,699	1,319,917	2,539,616	4,935,000	2,395,384
Progress Investment Management	602,567	635,787	1,238,354	2,549,000	1,310,646
Prudential Fixed Income	322,037	340,135	662,172	1,352,000	689,828
Pugh Capital Management	77,709	112,515	190,224	261,000	70,776
Ramirez Asset Management	-	97,471	97,471	-	(97,471)
RhumbLine Advisers	40,775	48,695	89,470	162,000	72,530
Smith Graham & Company	26,314	(315)	25,999	185,000	159,001
State Street Global Advisors	10,391	2,019	12,410	78,000	65,590
StepStone Real Estate	72,345	57,750	130,095	330,000	199,905
Strategic Global Advisors	276,130	292,971	569,101	1,176,000	606,899
T. Rowe Price	839,783	903,616	1,743,399	3,520,000	1,776,601
TCW MetWest	135,719	-	135,719	992,000	856,282
TorreyCove Capital Partners	57,292	171,875	229,167	1,000,000	770,833
UBS	231,700	-	231,700	421,000	189,300
Wellington Management Company	758,589	830,423	1,589,012	1,707,000	117,988
Terminated Managers	-	-	-	-	-
Short Term Invested Funds (STIF)	125,876	132,911	258,787	371,000	112,213
Performance Fees	-	-	-	4,480,500	4,480,500
<u>Securities Lending Expense</u>	<u>119,383</u>	<u>113,550</u>	<u>232,933</u>	<u>438,200</u>	<u>205,267</u>
Total Investment Management Fees	<u>\$ 15,440,738</u>	<u>\$ 17,015,823</u>	<u>\$ 32,456,561</u>	<u>\$ 69,695,700</u>	<u>\$ 37,239,139</u>
<u>Investment Administrative Expenditures:</u>					
Investment Consultant (includes Legal Counsel)	\$ 212,599	\$ 318,392	\$ 530,991	\$ 1,421,583	\$ 890,592
Custody, Performance & Databases	316,445	275,170	591,615	1,261,450	669,836
<u>Resources, Travel</u>	<u>20,281</u>	<u>30,045</u>	<u>50,326</u>	<u>170,329</u>	<u>120,003</u>
Total Investment Administrative Expenditures	<u>\$ 549,324</u>	<u>\$ 623,607</u>	<u>\$ 1,172,932</u>	<u>\$ 2,853,362</u>	<u>\$ 1,680,430</u>
<u>Total Investment Expenditures</u>	<u>\$ 15,990,062</u>	<u>\$ 17,639,431</u>	<u>\$ 33,629,493</u>	<u>\$ 72,549,062</u>	<u>\$ 38,919,569</u>

STATE UNIVERSITIES RETIREMENT SYSTEM

ALLOCATION OF FUNDS FROM SURS CASH FLOW ACCOUNT

October 1 through December 31, 2019

BEGINNING BALANCE \$ 253,875,482

CASH INTO ACCOUNT

ADAMS STREET 2004 NON-U.S. FUND	857,185	Partnership Distributions
ADAMS STREET	790,541	Partnership Distributions
BASIS INVESTMENT GROUP	2,551,583	Partnership Distributions
BROOKFIELD STR RE II	1,240,911	Partnership Distributions
BTC GLOBAL REIT	377,806,964	Manager Cash Raised
BLUE VISTA REAL ESTATE PARTNERS	1,494,337	Partnership Distributions
CASTLEARK	118,458,995	Manager Cash Raised
CROW HOLDINGS REALTY PARTNERS VII	1,671,205	Partnership Distributions
CROW HOLDINGS REALTY PARTNERS VIII	35,943	Partnership Distributions
FRANKLIN TEMPLETON MDP RE 2015	55,763	Partnership Distributions
GLADIUS	300,000,000	Manager Cash Raised
MACQUARIE INFRASTRUCTURE PARTNERS II	8,255,203	Partnership Distributions
MACQUARIE INFRASTRUCTURE PARTNERS IV	11,746	Partnership Distributions
NORTHERN TRUST ASSET MANAGEMENT	250,000,000	Manager Cash Raised
OAKTREE DEBT FUND II	780,020	Partnership Distributions
PAAMCO NEWPORT MONARCH FUND	42,002,590	Partial Redemption
PANTHEON VENTURES	5,426,352	Partnership Distributions
PANTHEON 2014	235	Partnership Distributions
PANTHEON MULTI STRATEGY 2017	56	Partnership Distributions
PANTHEON USA FUND IX	28,129,827	Partnership Distributions
T. ROWE PRICE	80,000,000	Manager Cash Raised
UBS TRUMBULL PROPERTY FUND	8,791,411	Income Distribution
CONTRIBUTIONS	867,945,588	Manager Cash Raised
INCOME	1,720,940	Net Income, Interest on Cash Balance
TOTAL TRANSFERS	\$ 2,098,027,393	

CASH OUT OF ACCOUNT

ADAMS STREET	(11,240,039)	To Fund Partnerships (Capital Calls)
ASPECT CORE TREND	(95,000,000)	Initial Funding
AQR CAPITAL MANAGEMENT	(115,000,000)	Initial Funding
ARP INVESTMENTS	(100,000,000)	Initial Funding
BASIS INVESTMENT GROUP FUND I	(1,362,697)	To Fund Partnerships (Capital Calls)
BLACKSTONE PROPERTY PARTNER	(2,329,247)	To Fund Partnerships (Capital Calls)
BLUE VISTA REAL ESTATE PARTNERS IV	(1,505,000)	To Fund Partnerships (Capital Calls)
CAMPBELL & COMPANY	(95,000,000)	Initial Funding
CORTEC GROUP FUND VII	(10,116,854)	To Fund Partnerships (Capital Calls)
CREDIT SUISSE FUNDING	(95,000,000)	Initial Funding
CROW HOLDINGS REALTY PARTNERS VIII	(2,734,206)	To Fund Partnerships (Capital Calls)
DUNE REAL ESTATE FUND IV	(5,207,106)	To Fund Partnerships (Capital Calls)

STATE UNIVERSITIES RETIREMENT SYSTEM

ALLOCATION OF FUNDS FROM SURS CASH FLOW ACCOUNT

October 1 through December 31, 2019

FAIRVIEW LINCOLN FUND I	(1,592,252)	To Fund Partnerships (Capital Calls)
FRANKLIN TEMPLETON MDP RE 2015	(1,376,995)	To Fund Partnerships (Capital Calls)
GARCIA HAMILTON	(18,000,000)	Increased Funding
GLADIUS	(30,000,000)	To Fund Account
HARVEST PARTNERS VIII	(6,842,524)	To Fund Partnerships (Capital Calls)
LM CAPITAL	(38,000,000)	Increased Funding
LONG WHARF RE VI	(743,174)	To Fund Partnerships (Capital Calls)
MACQUARIE INFRASTRUCTURE PARTNERS IV	(12,671,163)	To Fund Partnerships (Capital Calls)
MESIROW PRIVATE EQUITY SPECIAL FUND B	(10,400,000)	To Fund Partnerships (Capital Calls)
MESIROW PRIVATE EQUITY FUND VII-B	(3,360,000)	To Fund Partnerships (Capital Calls)
MULLER & MONROE PRIV EQ FUND OF FUNDS	(1,663,249)	To Fund Partnerships (Capital Calls)
NEUBERGER BERMAN	(217,000,000)	Initial Funding
PANTHEON MULTI STRATEGY 2014	(4,626,404)	To Fund Partnerships (Capital Calls)
PANTHEON MULTI STRATEGY 2017	(2,430,711)	To Fund Partnerships (Capital Calls)
PANTHEON ACCESS (U.S.) 2018	(7,200,809)	To Fund Partnerships (Capital Calls)
PANTHEON VENTURES	(766,470)	To Fund Partnerships (Capital Calls)
PIMCO UNCONSTRAINED	(23,000,000)	Increased Funding
PROGRESS CREDIT	(91,151,000)	Increased Funding
PUGH CAPITAL MANAGEMENT	(36,000,000)	Increased Funding
RHUMBLINE LONG DURATION	(340,000,000)	Initial Funding
RHUMBLINE TIPS	(460,000,000)	Increased Funding
NET CONTRIBUTIONS	(283,719,029)	Contributions less Benefit Payments
TOTAL ALLOCATION	<u>\$ (2,125,038,929)</u>	
ENDING BALANCE	<u>\$ 226,863,947</u>	

HISTORY OF ALLOCATIONS (FY 2016-FY 2020)

October 22, 2015

Allocated in the aggregate 3% of the portfolio to KKR Prisma Hedge Fund Solutions and PAAMCO with the exception of an equal allocation to each vendor subject to staff having discretion as to the allocated amount based on fee considerations. Terminated Herndon Capital Management as a non-U.S. equity manager, with the assets reallocated in approximately equal amounts to Manager Diversity Program non-U.S. equity managers Ativo Capital Management and Strategic Global Advisors. Terminated Calamos Advisors LLC as a global equity manager, with the assets retained in the SURS cash account (with Policy overlay in place).

December 11, 2015

Approved consolidation of the following investments and funds into the accounts maintained with real estate investment trusts: transfer BTC REIT Fund, a U.S. oriented fund, into and combine as a single account with BTC Global REIT Fund, a global passively managed fund; and transfer CBRE Clarion Real Estate Securities, a U.S. oriented fund, into and combined as a single account with CBRE Clarion Global REIT, a global actively managed fund. Authorized investment of up to two percent of the total investment portfolio (approximately \$350 million as of the date of these resolutions) of the System in the following funds: InvesCo Balanced Risk Commodity Trust, 75% of the two percent allocation, and PIMCO Commodity Alpha Fund, 25% of the two percent allocation. Such investments shall be contingent upon the negotiation of contracts with each of such funds to the satisfaction of the SURS staff and counsel. The SURS staff may vary the allocation between such funds with the approval of the Board of Trustees of the System. Received and filed the annual Report to the Governor and General Assembly Regarding Use of Emerging Investment Managers for the period ending June 30, 2015.

February 4, 2016

Terminated Taplin, Canida & Habacht as a core plus fixed income manager, with the assets reallocated to fixed income managers Garcia Hamilton & Associates (\$50 million) and TCW MetWest (remainder of assets, approximately \$78 million). Terminated structured active U.S. equity accounts managed by PIMCO StocksPLUS and Jacobs Levy Equity Management.

March 11, 2016

Consented (i) to the termination of the temporary suspension of the Commitment Period for Lincoln Fund I, LP, resulting from the recent Key Person Event, and (ii) to approve an amendment to the limited partnership agreement for Lincoln Fund I, LP, adding Alan Mattamana as a Key Person, pending successful negotiations and legal review. Authorized a commitment of \$100 million, contingent on successful contract negotiations, to Muller & Monroe and conditioned on further approval by the Board of Trustees. Consented to (i) the assignment of the Investment Management Agreement between SURS and Fiduciary Management Associates (FMA) and (ii) the appointment of Mesirov Financial Investment Management, Inc. be approved, pending successful negotiations and legal review.

April 21, 2016

Approved the revised fee schedule as proposed for Muller & Monroe. Authorized a commitment of up to 2 percent of the portfolio be allocated to equity index option strategies, to be managed by Gladius contingent upon successful negotiations and within the risk metrics consistent with Board directives. Authorized a commitment of \$150 million, contingent on successful contract negotiations, to the Adams Street 2016 Global Fund LP. Approved a search be conducted to identify a qualified global private equity fund of fund(s) provider(s). Authorized the Progress U.S. Equity Mandate be eliminated, with assets restructured to the following managers engaged directly by SURS, as listed below (amounts are approximate):

Non-U.S. Equity

- Ativo Capital Management - \$35 Million.
- GlobeFlex Capital - \$35 million.
- Strategic Global Advisors - \$35 million.

U.S. Equity

- Channing Capital - \$35 million.
- Piedmont Investment Advisors - \$35 million.
- Mesirov - \$35 million.
- CastleArk Management - \$35 million.

Cash

- The remaining balance of approximately \$100 million will be kept in cash, which can be used to help fund the commodities mandate or future benefit payments.

June 10, 2016

Consented to the proposed amendment to maintain the Commitment Period for MDP RE 2015, subject to legal review and completion of due diligence by Trustees and not to tender that decision until on or about August 1, 2016. Approved as presented the Investment

Department Administrative Expense Budget for Fiscal Year 2017, excluding personnel costs. Accepted as presented the projected Investment Department Investment Management Fees for Fiscal Year 2017.

September 15, 2016

Accepted the SURS Fiscal Year 2017 Investment Plan as presented. Rescinded the motion from the September 2015 Investment Committee and Board meeting that directed “a search be conducted to identify qualified providers of hedged strategies consistent with the criteria expressed in the 2016 Investment Plan.”

October 20, 2016

Consented that the 2 percent commitment to Gladius Capital Management be implemented on a fully funded basis with funding sourced from the Northern Trust U.S. Equity Index Account. Accepted that assets be reallocated from the BTC International Alpha Tilts account to the BTC Emerging Markets Index Fund in an amount sufficient to increase the emerging markets position to a market weighting in the total non-U.S. equity portfolio . As of September 30, 2016, this amount was estimated to be approximately \$20 million but may vary based on market fluctuations.

December 8, 2016

Accepted that assets be reallocated to the three existing global equity managers (Mondrian Investment Partners, T. Rowe Price Global Focused Growth and Wellington Management) in amounts sufficient to bring the global equity allocation to the 8 percent strategic policy target level, while approximately equal weighting each of the three existing managers (post-allocation). Approved the revised Investment Policy document for the defined benefit plan be approved, as amended. Approved the revised Investment Policy document for the Self-Managed Plan (SMP), as presented. Terminated CBRE Clarion as an active global REIT manager and agreed that its assets be reallocated to the passive BlackRock BTC Global REIT Fund. Authorized a commitment of \$20 million contingent on successful contract negotiations, to the Crow Holdings Realty Partners Fund VIII LP. Consented that the annual Report to the Governor and General Assembly Regarding Use of Emerging Investment Managers for the period ending June 30, 2016 be received as presented.

February 2, 2017

Terminated Chicago Equity Partners as a core fixed income manager. Authorized that the assets that were managed by Chicago Equity Partners be reallocated to two existing fixed income managers (Garcia Hamilton & Associates and State Street Global Advisors) in the following amounts, \$150 million to Garcia Hamilton and the remainder of assets to State Street, at such time and in such manner as deemed prudent by investment staff. Approved issuance of an RFP on or before March 1, 2017, to search for one or more passive managers for SURS for all asset classes. Approved that SURS execute the consent appointing Anthony Fragapane and Marc Rivitz as successor representatives to John Morgan and Michael Humphrey in relation to SURS’ investment with Courtland Partners.

March 10, 2017

Terminated Lombardia Capital Partners as a U.S. small cap value manager and approved that assets be liquidated. Consented to the continued management of the KKR Prisma Codlin Fund LLC by Prisma Capital Partners LP, subject to the satisfactory completion of legal review. Agreed to the continued management of the Newport Monarch Fund LLC by PAAMCO, subject to satisfactory completion of legal review. Rescinded the motion from the April 2016 investment committee meeting for a search to be conducted to identify a qualified global private equity fund of funds provider(s). Consented to continue utilizing Northern Trust as a Master Trustee, subject to completion of satisfactory negotiations and approval by the board and if deemed necessary by the staff.

April 20, 2017

Terminated Holland Capital Management as a U.S. Equity Manager. Agreed that assets be transferred from the U.S. equity portfolio to the existing Hedge Fund-of-Fund portfolios, Newport Monarch LLC (managed by PAAMCO) and KKR Prisma Codlin Fund LLC, in amounts sufficient to reach the 5 percent strategic policy target for Hedged Strategies portfolio (approximately \$400 million). Authorized that allocations to the existing Hedge Fund-of-Funds portfolios, Newport Monarch LLC (managed by PAAMCO) and the KKR Prisma Codlin Fund LLC will be in amounts to result in portfolios of approximately similar size, post-allocation (estimated to be about \$435-\$440 million each). Approved that the source of funding for the allocation to hedged strategies will be proceeds from the liquidation of the Holland Capital Management U.S. equity account with the balance from the U.S. equity index accounts managed by Northern Trust and RhumbLine on a pro rata basis. Approved that a search be conducted to identify qualified non-core private commercial real estate debt managers. Agreed that RhumbLine Advisers be retained to provide passive TIPS investment management services. Approved that the assets from the current active TIPS managers; PIMCO TIPS, Longfellow and New Century; be reallocated to the new passive TIPS manager, RhumbLine Advisers. The total amount to be reallocated was approximately \$675 million, but may vary based on market fluctuations.

June 8, 2017

Approved that SURS retain the Northern Trust Company, RhumbLine, State Street Bank and Trust Company, and BlackRock as managers of the passively managed equity and fixed income securities. Authorized that the Northern Trust Company, RhumbLine, State Street Bank and Trust Company, BlackRock, and Piedmont Investment Advisers be approved as providers of additional passively managed liquid equity and fixed income, in such sub-classes and amounts as may be approved by the Board from time to time. Agreed

that the Investment Policy of the Board be amended as provided in the form of amended and restated Investment Policy, dated June 9, 2017, and as presented to the Board. The Policy will reflect the following active manager premiums:

Large Cap Structured Active:	.75%
Mid Cap Core:	1%
Mid Cap Growth:	1%
Mid Cap Value:	1%
Small Cap Core:	2%
Small Cap Growth:	2%
Small Cap Value:	2%
All Cap Non-US Equity:	2%
Global Equity:	2%
Large Cap Non-US Developed Equity:	2%
Emerging Markets:	2%
Structured Active Non-US Equity:	1.5%
Emerging Markets:	.5%

Based on the recommendation of staff and SURS investment consultant, approved the Five-Year Private Equity Funding Plan, as follows:

		2017	\$300 million
	2018	\$300 million	
2019	\$350 million		
2020	\$350 million		
2021	\$400 million		

Authorized multi-year commitments to existing providers Adams Street Partners and Pantheon Ventures and new provider Mesirow Financial Private Equity in approximately equal amounts in accordance with the Five-Year Private Equity Funding Plan, subject to successful completion of contract negotiations. Approved that a commitment of \$50 million be authorized, contingent on successful contract negotiations, to Macquarie Infrastructure Partners IV LP. Authorized a search to be conducted to identify qualified minority-, female-, and persons with a disability-owned (MFDB) managers in the U.S. Equity space. Consented that the CREF Money Market Account be terminated as an investment option for the SURS Self-Managed Plan; that the Vanguard Federal Money Market Fund be approved as an investment option for the SURS Self-Managed Plan; and that funds currently in the CREF Money Market Account be transferred to the Vanguard Federal Money Market Fund, except for assets restricted by TIAA-CREF contract terms. Agreed that the DFA Retirement Income Funds be added to the SMP investment lineup as the default option for new enrollees at TIAA. Approved that a search be conducted to identify a qualified investment consultant.

September 14, 2017

Authorized a commitment of \$20 million, contingent on successful contract negotiations, to Dune Real Estate Partners Fund IV LP. Agreed to, contingent to successful contract negotiations, the commitments made as follows:

- a.) Axonic Income Fund (“Axonic”): \$20 million, so long as Axonic consummates the investment of \$250 million in the fund no later than May 1, 2018;
- b.) BIG Real Estate Fund I, GP (“Basis”): the lesser of \$30 million or 10 percent of the assets under management of Basis as of May 1, 2018; and
- c.) Oaktree Real Estate Debt Fund II, L.P.: \$30 million.

Rescinded the motion to conduct a search to identify a qualified investment consultant made during the June 2017 Investment Committee meeting.

October 19, 2017

Approved that, contingent on successful contract and fee negotiations, SURS transfers \$100 million from Channing Midcap Value account to Channing SMID Value strategy, \$50 million to the Denali Large Value strategy from the T. Rowe Price Large Core (Structured Research) portfolio, and \$100 million to the Matarin Small Core strategy from the CastleArk Small Growth portfolio. Authorized that a search be conducted to identify qualified firms to manage an option-based strategy of up to 2 percent of plan assets. Authorized that a search be conducted to identify a qualified defined benefit investment consultant and qualified defined contribution investment consultant.

December 7, 2017

Authorized a full redemption from the UBS Trumbull Property Fund and use of proceeds to invest \$300 million in core-plus, open-ended real estate fund(s). Approved a search for a core-plus, open-ended real estate fund(s). Authorized a commitment of \$35 million to Brookfield Strategic Real Estate Fund III L.P., contingent on successful contract negotiations. Consented to appoint Michael P. Murphy as successor representative to Anthony Fragapane at Courtland Partners. Approved redemptions to fund options strategies as

needed, from hedge fund of fund managers Prisma and PAAMCO in approximately the following amounts: \$245 million to be withdrawn from PAAMCO and \$115 million to be withdrawn from Prisma. Approved as presented the revised Appendix 10 to the Investment Policy document.

February 1, 2018

Approved, subject to completion of successful contract negotiations, that AQR Capital Management, Gladius Capital Management, and Neuberger Berman be retained to manage an options-writing strategy for SURS and each will be funded with an initial allocation of approximately .5 percent, .5 percent, and 1 percent of the total fund, respectively. Agreed that Blue Bay Asset Management be terminated as an Emerging Markets Debt Manager and that the assets be reallocated to three existing EMD managers in the following amounts:

- Colchester Global Investors \$30 million
- Progress Investment Management \$50 million
- Prudential Fixed Income Remainder of assets

Authorized, based on the recommendation of staff and the SURS Investment Committee, that Pension Consulting Alliance be hired as the general investment consultant for a five-year term, subject to successful completion of contract negotiations.

March 8, 2018

Approved, contingent on successful contract negotiation and based on the recommendation of staff and the SURS investment consultant, a commitment of \$200 million be authorized to Blackstone Property Partners LP, and a commitment of \$100 million be authorized to Carlyle Property Investors LP. Agreed that, based on the recommendation of staff, Cammack Retirement be hired as the defined contribution investment consultant for a five-year term, contingent on successful contract negotiations. Agreed that, based on the recommendation of SURS staff, the procurement policy for the defined benefit plan be approved as amended. Agreed that, based on the recommendation of SURS staff, the revised Investment Policy for the defined benefit plan be approved as presented.

April 19, 2018

Based on the recommendation of SURS staff and the investment consultant, terminated the Channing Mid Value account and authorized the assets be transferred to the RhumbLine passive U.S. strategy. Approved a search to identify a qualified specialty real estate investment consultant, based on the recommendation of SURS staff.

June 7, 2018

Authorized, based on the recommendation of SURS staff, a search to identify potential transition managers.

September 13, 2018

Based on the recommendation from SURS staff, approved the Investment Beliefs as presented. Approved as presented and based on the recommendation from SURS staff and SURS investment consultant, the strategic policy allocation targets set forth below, giving staff the discretion to gradually implement those policy targets in coordination with the actual transition of assets:

Asset Class	Weight
Non-Traditional Growth	15%
Traditional Growth	25%
Stabilized Growth	26%
Options Strategies	6%
Credit Fixed Income	14%
Real Assets	6%
Inflation Protection	6%
TIPS	6%
Principal Protection	8%
Crisis Risk Offset	20%
Long Duration	5%
Trend Following	10%
Alternative Risk Premia	5%

Hired Callan as real assets consultant for a five-year term, contingent on successful contract negotiations that allow such contract to be terminated with a 30-day notice. Failed to authorize termination of Mesirow small cap and move assets into passive U.S. Equity. Approved, based on the recommendation from SURS staff and SURS investment consultant, that SURS coordinate full redemptions from the KKR Prisma Codlin Fund and from the Newport Monarch Fund. At either the October or December 2018 Investment Committee meeting, staff will recommend where the proceeds will be invested.

October 18, 2018

Based on the recommendation from staff and PCA, approved the selection of transition managers for the transition manager bench and/or interim management services: BlackRock, Citigroup, Loop Capital, Northern Trust, Penserra, Russell.

December 6, 2018

Approved, based on the recommendation from staff and PCA that proceeds from the hedge fund of funds redemption be allocated to AQR (25%), Gladius (25%), and Neuberger Berman (50%), and used to fund benefit payments if needed. Authorized a search be conducted to identify a qualified private equity investment consultant. Agreed that a search be conducted to identify qualified providers for the Self-Managed Plan and the Optional Supplemental DC Plan.

March 7, 2019

Based on the recommendation of staff, approved revised Investment Procurement Policy. Approved, contingent on successful contract negotiations and based on the recommendation of staff and SURS real assets consultant, that a commitment of €75 million be authorized to Blackstone Real Estate Partners Europe Fund VI. Approved a search to identify a qualified firm to manage trend-following strategy and alternative risk premia strategy. Based on the recommendation of staff and PCA, a commitment of no more than 1.75 percent of SURS total portfolio (35 percent of the initial 5 percent target of CRO) to long duration strategy be authorized, contingent on successful bidding among the approved slate of passively managed liquid fixed income providers. Based on recommendation from SURS staff and PCA, SURS terminated Mesirov Small Cap account and authorized liquidating assets to transfer to the cash account for benefit payments.

April 18, 2019

Approved, contingent on successful contract negotiations and based on recommendation of SURS staff and Callan, that a commitment of \$75 million be authorized to Westbrook Real Estate Fund XI. Based on the recommendation of SURS staff and Callan, a commitment of the lesser of \$40 million or 10% of total fund commitments be authorized to Long Ward Real Estate Partners Fund VI. Approved the graduation of Ramirez Asset Management from the Progress Portfolio to a direct SURS relationship, based on the recommendation of SURS staff, Progress Investment Management, and Meketa. As presented, approved the revised Investment Policy for the defined benefit plan, based on the recommendations of SURS staff and Meketa

June 6, 2019

Based on the recommendation of SURS staff and Meketa, approved Torrey Cove as the discretionary private equity advisor for a five-year term. Authorized, based on the recommendation of SURS staff and Meketa, to restructure the fixed income portfolio to implement the agreed upon goals for the principal protection and credit portfolios. Approved, an add-on a commitment of \$30 million to Dune Real Estate Fund IV, based on the recommendation of SURS staff and Callan.

September 12, 2019

Based on the recommendation of SURS staff and Meketa, the Investment Committee approved retaining Aspect Capital, Campbell and Company, and LongTail Alpha, subject to successful contract negotiations. Agreed that, based on the recommendation of SURS staff, the revised Investment Policy for the defined benefit plan and Investment Procurement Policy be approved as presented. Based on the recommendation from SURS staff and Cammack, the Investment Committee approved the retention of Voya Financial as the sole recordkeeper for the existing Self-Managed Plan and the new supplemental plan, subject to successful contract negotiations. Approved, subject to completion of successful contract negotiations and based on recommendation from SURS staff and Cammack, the retention of Voya Financial as the sole recordkeeper and AllianceBernstein as the income solution provider for the existing Self-Managed Plan and the new supplemental plan.

October 17, 2019

Based on the recommendation of SURS staff and Meketa, the Investment Committee approved retaining Credit Suisse as a systematic trend following manager, subject to successful contract negotiations. The Investment Committee approved ARP Investments, Lombard Odier and PIMCO to be retained as alternative risk premia managers with each firm receiving an allocation of approximately 0.5 percent of total fund assets, subject to the successful completion of contract negotiations. Authorized a commitment of \$100 million to Prologis Targeted U.S. Logistics Fund and \$50 million to Cabot Industrial Value Fund VI, subject to the successful completion of contract negotiations.

Portfolio Rebalancing/Restructuring (FY16-FY20)

DATE	TO	FROM	AMOUNT
10/30/14	Cash Flow	T. Rowe Price	75 million
11/18/14	Cash Flow	Martin Currie	25.6 million
12/2/14	Heitman America Real Estate Tr	Cash Flow	67.4 million
12/8/14	Parametric Clifton	Cash Flow	30 million
1/30/15	Cash Flow	PIMCO StocksPLUS	60 million
2/4/15	Cash Flow	BTC Global REIT	50 million
3/18/15	Cash Flow	BTC International Equity	125 million
3/20/15	Cash Flow	Jacobs Levy Equity Management	90 million
3/26/15	Cash Flow	RhumbLine Advisers	100 million
3/27/15	BlueBay Asset Management	Cash Flow	175 million
4/1/15	Progress Emerging Mgr Program	Cash Flow	65 million
4/30/15	Colchester Global Investors EMD	Cash Flow	105 million
4/30/15	Cash Flow	Northern Trust Asset Management	25 million
4/30/15	Cash Flow	PIMCO StocksPlus	80 million
5/22/15	Parametric Clifton	Cash Flow	45 million
6/22/15	Prudential Fixed Income EMD	Cash Flow	175 million
6/22/15	Cash Flow	Northern Trust Asset Management	175 million
6/30/15	Cash Flow	BTC International Equity	60 million
7/31/15	Cash Flow	RhumbLine Advisers	100 million
9/17/15	Franklin Templeton MDP RE 2015	Cash Flow	1.1 million
9/30/15	Cash Flow	Northern Trust Asset Management	150 million
11/2/15	Parametric Clifton Transition	Cash Flow	50 million
11/20/15	Cash Flow	Calamos Investments	50 million
12/18/15	Parametric Clifton	Cash Flow	40 million
1/14/16	Crow Holdings Realty Ptnrs VII	Cash Flow	8.9 million
1/28/16	Cash Flow	PIMCO Total Return	75 million
2/18/16	Brookfield Strategic RE Ptnrs II	Cash Flow	2.1 million
2/23/16	Cash Flow	Jacobs Levy Equity Management	286.2 million
2/24/16	KKR Prisma Codlin Fund	Cash Flow	275 million
3/1/16	Cash Flow	PIMCO StocksPlus	60 million
3/31/16	Cash Flow	RhumbLine Advisers	100 million
3/31/16	PAAMCO Newport Monarch Fund	Cash Flow	195 million
4/1/16	Cash Flow	PIMCO StocksPlus	180 million
4/12/16	Brookfield Strategic RE Partners II	Cash Flow	1.4 million
4/13/16	Cash Flow	PIMCO StocksPlus	7.6 million
4/26/16	Blue Vista Real Estate Partners IV	Cash Flow	3.5 million
5/3/16	Cash Flow	Progress Emerging Managers Program	5.2 million
5/24/16	Cash Flow	Transition Account	92.3 million
5/27/16	Blue Vista Real Estate Partners IV	Cash Flow	5 million
6/1/16	PIMCO Commodity Alpha Fund	Cash Flow	82.5 million
6/6/16	Cash Flow	Parametric Clifton Cash Overlay	100 million
6/6/16	Cash Flow	Parametric Clifton Transition	30 million
6/6/16	Brookfield Strategic RE Partners II	Cash Flow	7.5 million
6/7/16	Invesco Balanced Risk Commodity	Cash Flow	250 million
6/10/16	Cash Flow	BTC Global REIT	40 million
6/29/16	Crow Holdings Realty Partners VII	Cash Flow	3.4 million
6/30/16	Cash Flow	TCW MetWest	50 million
7/29/16	Cash Flow	Parametric Clifton Transition	30 million
8/1/16	Cash Flow	Parametric Clifton Transition	190 million
8/9/16	Cash Flow	Calamos Investments	8.6 million
12/18/16	T. Rowe Price	Cash Flow	40 million
12/19/16	Wellington Management	Cash Flow	65 million
1/7/17	Mondrian Investment Partners	Cash Flow	64 million

Portfolio Rebalancing/Restructuring (FY16-FY20)

DATE	TO	FROM	AMOUNT
5/11/17	Cash Flow	Holland Capital Management	117 million
5/25/17	Cash Flow	RhumbLine Advisers	100 million
5/25/17	Cash Flow	Northern Trust	180 million
5/26/17	KKR Prisma Codlin Fund	Cash Flow	165 million
5/26/17	PAAMCO Newport Monarch Fund	Cash Flow	240 million
7/28/17	Cash Flow	BTC International Equity	100million
9/28/17	Cash Flow	BTC International Equity	100 million
12/07/17	Cash Flow	Brookfield Strategic RE Fund III L.P	35 million
11/29/17	Cash Flow	BTC International Equity	75 million
12/20/17	Cash Flow	T. Rowe Price	50 million
12/20/17	Denali	Cash Flow	50 million
01/3/18	Basis	Cash Flow	6.9 million
2/14/18	Colchester Global Investors EMD	Cash Flow	30 million
2/21/18	Prudential Fixed Income EMD	Cash Flow	60 million
2/26/18	Progress EMD: GIA Partners	Cash Flow	40 million
2/26/18	Progress EMD: LM Capital Mgmt	Cash Flow	10 million
2/28/18	Prudential Fixed Income EMD	Cash Flow	55.5 million
3/21/18	Cash Flow	KKR Prisma Codlin Fund	23 million
3/23/18	Basis	Cash Flow	0.9 million
4/12/18	Cash Flow	PAAMCO Newport Monarch Fund	0.3 million
4/15/18	Cash Flow	PAAMCO Newport Monarch Fund	200 million
4/18/18	Cash Flow	KKR Prisma Codlin Fund	68 million
4/20/18	Cash Flow	PAAMCO Newport Monarch Fund	15 million
4/25/18	Cash Flow	KKR Prisma Codlin Fund	24 million
4/26/18	Neuberger Berman	Cash Flow	190 million
5/30/18	Gladius Capital Management	Cash Flow	95 million
6/15/18	AQR Capital Management	Cash Flow	95 million
7/30/18	Northern Trust	Cash Flow	60 million
8/24/18	Northern Trust	Cash Flow	150 million
9/4/18	Northern Trust	Cash Flow	200 million
10/1/18	Cash Flow	Carlyle Property Investors	5 million
11/29/18	Northern Trust	Cash Flow	70 million
1/15/2019	UBS	Cash Flow	36 million
2/11/2019	Cash Flow	Neuberger Berman	150 million
2/26/2018	Northern Trust	Cash Flow	27 million
3/26/2019	Northern Trust	Cash Flow	56 million
3/28/2019	Cash Flow	AQR	75 million
4/5/2019	Northern Trust	Cash Flow	3 million
4/26/2019	PAAMCO	Cash Flow	43 million
6/20/2019	KKR	Cash Flow	30 million
6/26/2019	Mesirow	Cash Flow	4 million
7/26/2019	T. Rowe	Cash Flow	70 million
10/9/2019	Cash Flow	Gladius	300 million
11/1/2019	Rhumbline TIPS	Cash Flow	230 million
11/29/2019	Rhumbline Long Duration	Cash Flow	190 million
11/29/2019	Campbell & Company	Cash Flow	95 million
11/29/2019	Aspect	Cash Flow	95 million
12/30/2019	ARP	Cash Flow	100 million
12/24/2019	Cash Flow	T. Rowe Price	80 million

STATE UNIVERSITIES RETIREMENT SYSTEM

ALTERNATIVE INVESTMENTS

As of December 31, 2019

<u>Partnership Investments</u>	<u>Closed</u>	<u>Committed</u>	<u>Funded</u>	<u>Amount Not Called</u>	<u>Remaining</u>	<u>Valuation as of 9/30/2019</u>				
<u>Private Equity</u>										
Adams Street Partnership Trust										
Adams Street Partners Partnership Trust	\$	906,523,208	\$	880,631,592	\$	11,624,068	\$	14,267,548	\$	25,149,251.00
Adams Street Partners Venture Partnership Acquisition Fund II	\$	10,000,000	\$	10,000,000	\$	-	\$	-	\$	-
Adams Street Non U.S. Partnership Fund Trust	\$	79,405,010	\$	71,135,940	\$	8,269,070	\$	8,269,070	\$	7,364,535.00
Adams Street Global Opportunities Secondary Fund, LP	\$	25,000,000	\$	22,125,000	\$	2,875,000	\$	2,875,000	\$	2,955,671.00
Adams Street Global Secondary Fund 5	\$	20,000,000	\$	15,649,950	\$	4,350,050	\$	4,350,050	\$	10,515,467.00
Adams Street 2007 Global Opportunities Portfolio	\$	100,000,000	\$	91,300,000	\$	8,700,000	\$	8,700,000	\$	29,123,328.00
Adams Street 2008 Global Offering	\$	100,000,000	\$	92,816,000	\$	7,184,000	\$	7,184,000	\$	64,306,218.00
Adams Street 2009 Global Offering	\$	100,000,000	\$	91,457,000	\$	8,543,000	\$	8,543,000	\$	78,584,217.00
Adams Street 2012 Global Fund	\$	80,000,000	\$	56,232,000	\$	23,768,000	\$	23,768,000	\$	76,025,784.00
Adams Street 2013 Global Fund	\$	100,000,000	\$	72,149,999	\$	27,850,001	\$	27,850,001	\$	103,403,155.00
Adams Street 2014 Global Fund	\$	100,000,000	\$	68,300,000	\$	31,700,000	\$	31,700,000	\$	103,160,375.00
Adams Street 2015 Global Fund	\$	125,000,000	\$	70,500,000	\$	54,500,000	\$	54,500,000	\$	101,816,312.00
Adams Street 2016 Global Fund	\$	150,000,000	\$	52,875,000	\$	97,125,000	\$	97,125,000	\$	87,083,293.00
Adams Street 2017 Global Fund	\$	90,000,000	\$	11,295,000	\$	78,705,000	\$	78,705,000	\$	39,338,996.00
Adams Street 2018 Global Fund	\$	90,000,000	\$	10,080,000	\$	79,920,000	\$	79,920,000	\$	12,133,599.00
Pantheon Ventures Inc.										
Pantheon Ventures Partnership Trust	\$	593,314,129	\$	559,577,216	\$	33,736,913	\$	33,736,913	\$	284,346,108.00
Pantheon Global Secondary Fund II LP	\$	25,000,000	\$	21,278,298	\$	3,721,702	\$	3,721,702	\$	559,458.00
Pantheon Multi-Strategy Program 2014 (US), L.P.	\$	125,000,000	\$	72,512,973	\$	52,487,027	\$	52,487,027	\$	59,001,139.00
Pantheon USA Fund VIII, L.P.	\$	103,307,076	\$	95,635,890	\$	7,671,186	\$	7,671,186	\$	76,626,578.00
Pantheon USA Fund IX, L.P.	\$	85,444,334	\$	72,184,334	\$	13,260,000	\$	13,260,000	\$	81,883,536.00
Pantheon Access (US), L.P.	\$	90,000,000	\$	22,886,520	\$	67,113,480	\$	67,113,480	\$	10,423,275.00
Fairview Lincoln Fund I	\$	75,000,000	\$	58,821,916	\$	16,178,084	\$	16,178,084	\$	64,851,881.00
Mesirow Financial Private Equity Fund VII - B L.P.	\$	40,000,000	\$	31,760,000	\$	8,240,000	\$	8,240,000	\$	29,443,924.00

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As of December 31, 2019

	<u>Closed</u>	<u>Committed</u>	<u>Funded</u>	<u>Amount Not Called</u>	<u>Remaining</u>	<u>Valuation as of 9/30/2019</u>				
Partnership Investments										
Mesirow Financial Private Equit Special Fund B	\$	160,000,000	\$	46,410,150	\$	113,589,850	\$	27,586,192.00		
Muller & Monroe - Illinois Private Equity Fund-of-Funds, LP (ILPEFF)	\$	25,000,000	\$	21,484,111	\$	3,515,889	\$	-		
Muller & Monroe Private Equity Fund-of-Funds, LP (MPEFF)	\$	25,000,000	\$	24,248,524	\$	751,476	\$	5,157,813.00		
Muller & Monroe SURS Emerging Private Equity Fund-of-Funds	\$	100,000,000	\$	37,321,853	\$	62,678,147	\$	63,501,610.00		
Progress Investment Management Investments										
Progress Investment Management	\$	20,000,000	\$	18,468,817	\$	-	\$	356,988.00		
Total Private Equity Investments (US Dollars)	<u>\$</u>	<u>3,722,993,756</u>	<u>\$</u>	<u>2,718,039,688</u>	<u>\$</u>	<u>11,624,068</u>	<u>\$</u>	<u>991,798,816</u>	<u>\$</u>	<u>1,444,698,703</u>

Pantheon Ventures Partnership Trust	€	19,729,220	€	12,025,206	€	7,704,014		
Pantheon Europe Fund III	€	68,105,700	€	55,472,840	€	12,632,860	\$	7,251,139.00
Pantheon Europe Fund VI	€	30,722,000	€	28,479,294	€	2,242,706	\$	20,608,842.00
Pantheon Europe Fund VII	€	30,715,907	€	25,500,407	€	5,215,500	\$	29,869,588.00
Total Private Equity Investments (Euros)	<u>€</u>	<u>149,272,827</u>	<u>€</u>	<u>121,477,747</u>	<u>€</u>	<u>27,795,080</u>	<u>\$</u>	<u>57,729,569.00</u>

Other Alternative Investments

Real Estate

Basis BIG Real Estate Fund I, LP	\$	30,000,000	\$	26,466,040	\$	3,533,960	\$	14,186,624.00
Blackstone Property Partners	\$	200,000,000	\$	200,000,000	\$	-	\$	204,449,274
Blue Vista Real Estate Partners IV	\$	35,000,000	\$	35,000,000	\$	-	\$	34,169,739.00
Brookfield Strategic Real Estate Partners II	\$	35,000,000	\$	30,842,837	\$	4,157,163	\$	32,818,000.00
Brookfield Strategic Real Estate Partners III	\$	35,000,000	\$	11,797,205	\$	23,202,795	\$	8,996,000.00
Carlyle Property Investors	\$	100,000,000	\$	100,000,000	\$	-	\$	104,723,788.00
Crow Holdings Realty Partners VII	\$	35,000,000	\$	31,426,991	\$	3,573,009	\$	23,451,572.00
Crow Holdings Realty Partners VIII	\$	20,000,000	\$	14,117,813	\$	5,882,187	\$	12,197,388
Dune Real Estate Parallel Fund II	\$	40,000,000	\$	39,738,957	\$	261,043	\$	19,662,743.00
Dune Real Estate Parallel Fund III	\$	100,000,000	\$	91,359,322	\$	8,640,678	\$	101,165,930.00

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As of December 31, 2019

	<u>Closed</u>	<u>Committed</u>	<u>Funded</u>	<u>Amount Not Called</u>	<u>Remaining</u>	<u>Valuation as of 9/30/2019</u>		
Partnership Investments								
Dune Real Estate Fund IV	\$	50,000,000	\$	9,583,202	\$	40,416,798	\$	3,439,115.00
Franklin Templeton EMREFF	\$	74,974,768	\$	66,452,155	\$	8,522,613	\$	8,039,173.00
Franklin Templeton FTPREF	\$	50,000,000	\$	43,186,634	\$	6,813,366	\$	46,777,676.00
Franklin Templeton MDP RE 2015	\$	90,000,000	\$	22,410,999	\$	67,589,001	\$	36,118,479.00
Heitman America Real Estate Trust	\$	150,000,000	\$	150,000,000	\$	-	\$	224,941,131.00
JPMCB Strategic Property Fund	\$	150,000,000	\$	150,000,000	\$	-	\$	225,911,435.00
Long Wharf Real Estate Partners VI	\$	40,000,000	\$	6,171,641	\$	33,828,359	\$	4,445,507.00
Courtland/Pru Real Estate Global Partnership Fund II (fka MFIRE II)	\$	60,000,000	\$	39,300,000	\$	20,700,000	\$	24,944,092.00
Oaktree Real Estate Debt Fund II (Parallel), L.P.	\$	30,000,000	\$	12,930,000	\$	17,070,000	\$	2,833,898.00
Total Real Estate Investments	<u>\$</u>	<u>1,444,974,768</u>	<u>\$</u>	<u>1,200,783,797</u>	<u>\$</u>	<u>244,190,971</u>	<u>\$</u>	<u>1,133,271,564</u>
Infrastructure								
Alinda Capital Partners	\$	40,000,000	\$	36,559,691	\$	3,440,309	\$	16,083,853.00
Macquarie Infrastructure Partners II	\$	40,000,000	\$	37,974,017	\$	2,025,983	\$	22,530,205.00
Macquarie Infrastructure Partners III	\$	50,000,000	\$	43,654,780	\$	6,345,220	\$	44,264,240.00
Macquarie Infrastructure Partners IV	\$	50,000,000	\$	42,903,410	\$	7,096,590	\$	30,624,528.00
Total Infrastructure Investments	<u>\$</u>	<u>180,000,000</u>	<u>\$</u>	<u>161,091,898</u>	<u>\$</u>	<u>18,908,102</u>	<u>\$</u>	<u>113,502,826</u>
Public-Private Investment Program (PPIP)								
Angelo Gordon GECC	\$	60,000,000	\$	54,000,000	\$	6,000,000	\$	32,309
Oaktree Capital Management	\$	50,000,000	\$	22,584,949	\$	27,415,051	\$	6,590
RLJ Western Asset	\$	50,000,000	\$	50,000,000	\$	0	\$	-
Total Public-Private Investment Program (PPIP)	<u>\$</u>	<u>160,000,000</u>	<u>\$</u>	<u>126,584,949</u>	<u>\$</u>	<u>33,415,051</u>	<u>\$</u>	<u>38,899</u>
Hedged Strategies								
KKR Prisma Codlin Fund	\$	275,000,000	\$	275,000,000	\$	-	\$	15,079,505.00
PAAMCO Newport Monarch Fund	\$	195,000,000	\$	195,000,000	\$	-	\$	61,207,244.00
AQR Global Risk	\$	95,000,000	\$	95,000,000	\$	-	\$	175,681,188.00
Total Hedged Strategy Investments	<u>\$</u>	<u>565,000,000</u>	<u>\$</u>	<u>565,000,000</u>	<u>\$</u>	<u>-</u>	<u>\$</u>	<u>76,286,749</u>

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ALTERNATIVE INVESTMENTS

As of December 31, 2019

<u>Partnership Investments</u>	<u>Closed</u>	<u>Committed</u>	<u>Funded</u>	<u>Amount Not Called</u>	<u>Remaining</u>	<u>Valuation as of</u>	
<u>Commodities</u>						<u>9/30/2019</u>	
Invesco Balanced Risk Commodity Trust	\$	250,000,000	\$	250,000,000	\$	-	\$ 234,212,625.00
PIMCO Commodity Alpha Fund	\$	82,500,000	\$	82,500,000	\$	-	\$ 111,772,979.00
Total Commodity Investments	<u>\$</u>	<u>332,500,000</u>	<u>\$</u>	<u>332,500,000</u>	<u>\$</u>	<u>-</u>	<u>\$ 345,985,604</u>

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - DOMESTIC EQUITIES
 Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
Abel/Noser	1,416	\$ 35	\$ 0.03	
Academy Securities	4,582	115	0.03	Disabled Veteran
Alex Brown	17,700	177	0.01	
<u>Alex Brown (ECN)</u>	27,073	812	0.03	
Allen & Company	12,892	322	0.03	
Andes Capital Group (ECN)	9,100	273	0.03	Asian American
B Riley & Company	102,329	3,070	0.03	
BMO Capital Markets	106,663	3,009	0.03	
<u>BMO Capital Markets (ECN)</u>	42,183	316	0.01	
BTIG (Bass Trading International Group)	155,900	1,648	0.01	
<u>BTIG (Bass Trading International Group) (ECN)</u>	32,200	322	0.01	
Bancroft Capital	17,730	443	0.03	Disabled Veteran
Bank of America	28,371	800	0.03	
Bank of America Securities	67,685	1,980	0.03	
<u>Bank of America Securities (ECN)</u>	133,344	1,229	0.01	
Barclays	699,726	9,823	0.01	
<u>Barclays (ECN)</u>	2,918,957	32,933	0.01	
Barrington Research Associates	11,035	331	0.03	
Benchmark Company	57,955	1,739	0.03	
Berenberg Bank	15,640	469	0.03	
<u>Berenberg Bank (ECN)</u>	66,626	1,685	0.03	
<u>BlockCross Holdings (ECN)</u>	5,314	40	0.01	
CAPIS (Capital Institutional Services)	171,827	4,497	0.03	Female
CL King & Associates	237,442	6,639	0.03	Female
CL King & Associates (ECN)	162,533	2,701	0.02	Female
<u>CLSA (ECN)</u>	2,404	24	0.01	
Cabrera Capital Markets	140,656	4,150	0.03	Latino
Cabrera Capital Markets (ECN)	346,843	7,225	0.02	Latino
Canaccord Adams	126,547	3,796	0.03	
Canaccord Genuity Canada	3,200	16	0.01	
Cantor Fitzgerald	17,127	372	0.02	
Capital Institutional Services, Inc (CAPIS)	26,599	931	0.04	Female
Capital Institutional Services, Inc (CAPIS) (ECN)	234,088	2,107	0.01	Female
Capital Investment Services, Inc	31,500	315	0.01	Female
CastleOak Securities	201,385	4,190	0.02	African American
CastleOak Securities (ECN)	858,418	7,742	0.01	African American
Cheevers & Company	181,505	4,538	0.03	Female
Citigroup Global Markets	59,957	1,845	0.03	
<u>Citigroup Global Markets (ECN)</u>	803,285	4,446	0.01	
<u>Cornerstone Macro (ECN)</u>	178,824	3,297	0.02	
Cowen & Company	392,907	11,847	0.03	
<u>Cowen & Company (ECN)</u>	287,399	2,805	0.01	
Craig-Hallum	822,026	24,661	0.03	
Credit Suisse	41,631	1,324	0.03	
<u>Credit Suisse (ECN)</u>	184,189	5,169	0.03	
DA Davidson & Company	67,710	2,031	0.03	
<u>DA Davidson & Company (ECN)</u>	76,822	2,122	0.03	
Dash Financial	734,203	7,342	0.01	
Deutsche Bank	44,551	1,510	0.03	
<u>Deutsche Bank (ECN)</u>	6,619	66	0.01	
Dougherty & Company	69,320	2,080	0.03	
Drexel Hamilton	500	13	0.03	Disabled Veteran
Evercore Partners	67,881	2,222	0.03	
<u>Evercore Partners (ECN)</u>	137,385	1,325	0.01	
FIS	155,600	778	0.01	
<u>FIS (ECN)</u>	21,300	107	0.01	
Fig Group LLC (ECN)	7,391	222	0.03	Female
Goldman Sachs	1,784,538	51,846	0.03	
<u>Goldman Sachs (ECN)</u>	1,113,577	28,349	0.03	
Gordon Haskett Capital	112	3	0.03	
Green Street Advisors	744	19	0.03	
Guzman & Company	3,356	84	0.03	Latino
IFS Securities	1,900	48	0.03	African American
INTL FCStone	562	14	0.03	
ISI Group	31,255	1,094	0.04	
ITG (Investment Technology Group)	165,400	1,654	0.01	

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	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
<u>ITG (Investment Technology Group) (ECN)</u>	747,086	21,640	0.03	
<u>Instinet (ECN)</u>	116,168	2,009	0.02	
Ivy Securities	95,100	951	0.01	Asian American
<u>Ivy Securities (ECN)</u>	13,200	132	0.01	Asian American
JMP Securities	48,400	1,452	0.03	
<u>JMP Securities (ECN)</u>	87,185	1,596	0.02	
JP Morgan Chase & Company	168,167	5,438	0.03	
<u>JP Morgan Chase & Company (ECN)</u>	687,295	19,969	0.03	
Janney Montgomery Scott	2,700	68	0.03	
Jefferies & Company	205,976	6,313	0.03	
<u>Jefferies & Company (ECN)</u>	247,224	4,498	0.02	
<u>Johnson Rice & Company (ECN)</u>	21,297	425	0.02	
Jones & Associates	5,203	130	0.03	
<u>Jones & Associates (ECN)</u>	30,779	923	0.03	
JonesTrading Institutional Services	215,511	3,625	0.02	
<u>JonesTrading Institutional Services (ECN)</u>	18,285	210	0.01	
Keefe, Bruyette & Woods	61,015	2,094	0.03	
<u>Keefe, Bruyette & Woods (ECN)</u>	74,259	1,741	0.02	
KeyBanc Capital Markets	200,803	5,947	0.03	
<u>KeyBanc Capital Markets (ECN)</u>	178,275	4,461	0.03	
Lake Street Capital Markets	63,840	1,915	0.03	
Leerink Swann & Company	122,272	3,527	0.03	
Liquidnet	27,473	962	0.04	
<u>Liquidnet (ECN)</u>	248,620	4,613	0.02	
Loop Capital Markets	3,081,090	80,644	0.03	African American
<u>Loop Capital Markets (ECN)</u>	4,587,201	47,168	0.01	African American
<u>Luminex Trading & Analytics (ECN)</u>	187,550	2,152	0.01	
<u>MKM Partners (ECN)</u>	25,402	762	0.03	
Macquarie Securities	3,664	128	0.04	
<u>Merrill Lynch (ECN)</u>	107,617	1,076	0.01	
<u>Mischler Financial Group (ECN)</u>	16,816	465	0.03	Disabled Veteran
Mizuho Securities	9,582	240	0.03	
Morgan Stanley	102,312	3,119	0.03	
<u>Morgan Stanley (ECN)</u>	50,600	473	0.01	
Needham & Company	153,275	4,598	0.03	
<u>Needham & Company (ECN)</u>	34,978	1,049	0.03	
<u>Nomura (ECN)</u>	29,410	221	0.01	
North South Capital	105,800	5,290	0.05	Female
<u>North South Capital (ECN)</u>	59,300	2,965	0.05	Female
Northland Securities	149,989	4,373	0.03	
O'Neil Securities, Inc.	205,966	6,179	0.03	
Oppenheimer & Company	249,900	7,497	0.03	
<u>Oppenheimer & Company (ECN)</u>	1,388,309	13,883	0.01	
Penserra Securities	1,690,079	23,176	0.01	Latino
<u>Penserra Securities (ECN)</u>	3,054,693	27,611	0.01	Latino
Piper Jaffray & Company	467,425	13,775	0.03	
<u>Piper Jaffray & Company (ECN)</u>	32,225	967	0.03	
Precision Securities	80,500	684	0.01	
<u>Precision Securities (ECN)</u>	26,900	229	0.01	
RBC Capital Markets	98,600	3,084	0.03	
<u>RBC Capital Markets (ECN)</u>	172,589	1,628	0.01	
ROTH Capital Partners	99,415	2,982	0.03	
Ramirez & Company	20,292	507	0.03	Latino
Raymond James & Associates	170,745	4,968	0.03	
<u>Raymond James & Associates (ECN)</u>	191,150	4,493	0.02	
Robert W. Baird & Company	853,011	27,500	0.03	
<u>Robert W. Baird & Company (ECN)</u>	406,617	10,178	0.03	
Sanford C. Bernstein	42,838	1,489	0.03	
<u>Sanford C. Bernstein (ECN)</u>	108,840	1,551	0.01	
Scotia Capital	656	16	0.03	
Seaport Group	205,854	6,176	0.03	
<u>Seaport Group (ECN)</u>	122,612	3,325	0.03	
Sidoti & Company	4,200	105	0.03	
Siebert Brandford Shank & Company	116,108	2,903	0.03	African American
<u>Siebert Brandford Shank & Company (ECN)</u>	1,122,524	4,998	0.00	African American
Stephens	582,541	17,561	0.03	

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	<u>Shares Traded</u>	<u>Commissions</u>	<u>Cents Per Share</u>	<u>Ownership (minority/female/disabled)</u>
<u>Stephens (ECN)</u>	66,909	1,923	0.03	
Stifel, Nicolaus & Company	772,889	24,524	0.03	
<u>Stifel, Nicolaus & Company (ECN)</u>	251,695	5,899	0.02	
Stuart Frankel & Co.	762	19	0.03	
<u>Sturdivant and Company (ECN)</u>	1,323,673	11,033	0.01	African American
SunTrust Robinson Humphrey	161,899	4,795	0.03	
<u>SunTrust Robinson Humphrey (ECN)</u>	82,841	2,485	0.03	
Susquehanna Financial Group	20,963	524	0.03	
TD Securities	17,256	431	0.03	
Telsey Advisory Group	93,730	2,662	0.03	Female
<u>Telsey Advisory Group (ECN)</u>	18,703	561	0.03	Female
Themis Trading	1,240	25	0.02	
Tigress Financial Partners	1,275	32	0.03	Female
UBS	101,518	3,251	0.03	
<u>UBS (ECN)</u>	69,948	668	0.01	
Virtu Financial Capital Markets	6,436	225	0.04	
<u>Virtu Financial Capital Markets (ECN)</u>	23,041	173	0.01	
Wedbush Morgan Securities	979	32	0.03	
Weeden & Company	21,091	527	0.03	
<u>Weeden & Company (ECN)</u>	225,013	1,974	0.01	
Wells Fargo Advisors	184,875	5,530	0.03	
<u>Wells Fargo Advisors (ECN)</u>	46,824	1,405	0.03	
William Blair & Company	868,767	26,217	0.03	
<u>William Blair & Company (ECN)</u>	39,159	856	0.02	
Williams Capital Group	1,298,605	15,755	0.01	African American
<u>Williams Capital Group (ECN)</u>	1,085,570	17,694	0.02	African American
Wolfe Trahan Securities	14,669	367	0.03	
Grand Totals	<u>45,243,077</u>	<u>\$ 835,549</u>	<u>\$ 0.02</u>	

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - DOMESTIC EQUITIES
 Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
Active Domestic Equity				
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 30%				
Totals by Investment Manager				Per Cent of MFDB Usage
CastleArk Management	13,302,490	\$ 397,089	\$ 0.03	22.35%
Channing Capital Management - SMID	3,763,140	91,677	0.02	100.00%
Denali Advisors	1,503,281	24,395	0.02	66.60%
EARNEST Partners	670,852	17,095	0.03	58.18%
Matarin Capital Management	2,120,620	19,086	0.01	100.00%
Mesirow Financial Investment Mgmt (formerly FMA)	1,916,825	58,066	0.03	35.09%
Grand Totals, Active Domestic Equity	23,277,208	\$ 607,407	\$ 0.03	
Enhanced Active Domestic Equity				
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 20%				
Totals by Investment Manager				Per Cent of MFDB Usage
Piedmont Investment Advisors	15,420,921	\$ 125,688	\$ 0.01	86.13%
T. Rowe Price	4,290,479	73,857	0.02	35.50%
Grand Totals, Enhanced Active Domestic Equity	19,711,400	\$ 199,545	\$ 0.01	
Passive Domestic Equity				
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 35%				
Totals by Investment Manager				Per Cent of MFDB Usage
Northern Trust Asset Management	382,063	\$ 3,586	\$ 0.01	100.00%
RhumbLine Advisers	1,872,406	25,011	0.01	100.00%
Grand Totals, Passive Domestic Equity	2,254,469	\$ 28,597	\$ 0.01	
<i>Total Electronic Communication Networks (ECN's)</i>	25,084,256	\$ 337,401	\$ 0.01	
Per Cent of Total	55.44%	40.38%		
Total MFDB Firms	20,421,114	\$ 290,779	\$ 0.01	
Per Cent of Total less ECN's	61.77%	46.08%		
Breakdown of Reported Firms (in Dollars)				
African American	13,676,474	\$ 192,176	\$ 0.01	6 Firms
Latino	5,255,919	62,753	0.01	4 Firms
Asian	117,400	1,356	0.01	2 Firms
Female	1,331,693	33,459	0.03	10 Firms
Disabled Veteran	39,628	1,035	0.03	4 Firms
Native American	-	-	-	0 Firms
Total MFDB Firms	20,421,114	\$ 290,779	\$ 0.01	26 Firms
Breakdown of Reported Firms (in Per Cent)				
African American	41.37%	30.45%		
Latino	15.90%	9.94%		
Asian	0.36%	0.21%		
Female	4.03%	5.30%		
Disabled Veteran	0.12%	0.16%		
Native American	0.00%	0.00%		
Total MFDB Firms	61.77%	46.08%		

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - INTERNATIONAL EQUITIES

Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Amount Traded	Commissions	Per Cent Cost of Trade	Cents Per Share	Ownership (minority/female/disabled)
Andes Capital Group	4,500	\$ 562,126	\$ 90.00	0.02%	\$ 0.02	Asian American
Auerbach Grayson & Company	311,159	3,539,985	3,351	0.09%	0.01	
BBVA Bolsa S.V. S.A.	2,619	57,610	35	0.06%	0.01	
BMO Capital Markets	227,000	2,667,584	3,078	0.12%	0.01	
<u>BMO Capital Markets (ECN)</u>	202,269	3,645,578	1,150	0.03%	0.01	
BTG Pactual	216,300	1,234,319	1,233	0.10%	0.01	
BTIG (Bass Trading International Group)	1,012,225	14,743,456	10,070	0.07%	0.01	
Bank of America	1,725,629	11,857,508	17,840	0.15%	0.01	
<u>Bank of America (ECN)</u>	1,153,207	29,160,397	20,401	0.07%	0.02	
Barclays	369,278	7,065,188	7,282	0.10%	0.02	
<u>Barclays (ECN)</u>	328,600	3,043,195	2,373	0.08%	0.01	
Baypoint Trading	49,540	1,536,452	991	0.06%	0.02	
Berenberg Bank	86,361	3,324,709	3,638	0.11%	0.04	
Bloomberg Tradebook	10,700	417,198	207	0.05%	0.02	
CAPIS (Capital Institutional Services)	377,600	3,192,140	1,595	0.05%	0.02	Female
CIBC (Canadian Imperial Bank of Commerce)	50,300	262,151	953	0.36%	0.02	
<u>CIBC (Canadian Imperial Bank of Commerce) (ECN)</u>	23,200	1,363,703	130	0.01%	0.01	
CLSA	1,841,562	12,663,570	15,943	0.13%	0.01	
<u>CLSA (EM)</u>	4,398,458	6,915,233	9,961	0.14%	0.00	
Cabrera Capital Markets	3,886,794	58,331,103	35,886	0.06%	0.00	Latino
Cabrera Capital Markets (EM)	19,484,211	21,820,064	21,655	0.10%	0.00	Latino
Canaccord Adams	12,100	298,489	46	0.02%	0.00	
Cantor Fitzgerald	291,720	6,887,021	9,082	0.13%	0.03	
Capital Investment Services, Inc (EM)	11,060	98,131	118	0.12%	0.01	Female
Carnegie	9,780	554,852	894	0.16%	0.09	
CastleOak Securities	163,000	1,387,972	2,220	0.16%	0.01	African American
China International Capital	98,000	628,442	452	0.07%	0.00	
Citigroup Global Markets	5,795,938	70,615,320	45,102	0.06%	0.01	
<u>Citigroup Global Markets (ECN)</u>	884,099	14,037,525	11,210	0.08%	0.01	
Cowen & Company	680,877	16,934,042	9,937	0.06%	0.01	
<u>Cowen & Company (EM)</u>	8,500	2,018,817	2,420	0.12%	0.28	
Credit Suisse	6,873,585	68,777,888	54,989	0.08%	0.01	
<u>Credit Suisse (ECN)</u>	3,444,004	70,605,031	43,643	0.06%	0.01	
<u>Credit Suisse (EM)</u>	567,567	2,454,267	3,680	0.15%	0.01	
Daiwa Securities Group	218,396	4,849,182	5,672	0.12%	0.03	
Delek Group	4,700	124,427	149	0.12%	0.03	
Desjardins Securities	100	9,394	2	0.02%	0.02	
Deutsche Bank	216,544	4,649,876	6,475	0.14%	0.03	
<u>Deutsche Bank (ECN)</u>	522,843	8,409,589	6,307	0.08%	0.01	
DnB NOR Markets	41,600	412,796	248	0.06%	0.01	
Exane	64,831	2,296,865	3,085	0.13%	0.05	
<u>Exane (ECN)</u>	1,510,184	13,101,399	9,917	0.08%	0.01	
FIG Partners	8,800	271,826	435	0.16%	0.05	
FIS	52,600	791,831	197	0.02%	0.00	
FIS Brokerage & Securities Services LLC	27,600	739,835	105	0.01%	0.00	
Fig Group LLC	43,867,787	89,439,186	137,112	0.15%	0.00	Female
Fig Group LLC (EM)	3,508,455	4,770,706	7,168	0.15%	0.00	Female
Goldman Sachs	4,047,374	44,864,007	46,966	0.10%	0.01	
<u>Goldman Sachs (ECN)</u>	959,154	22,847,906	14,450	0.06%	0.02	
Goodbody	349,929	748,271	1,496	0.20%	0.00	
HSBC	564,762	3,662,287	3,296	0.09%	0.01	
<u>HSBC (EM)</u>	428,281	529,943	795	0.15%	0.00	
Handelsbanken	113,216	3,334,622	3,514	0.11%	0.03	
ITG (Investment Technology Group)	7,592,921	75,896,678	66,119	0.09%	0.01	
<u>ITG (Investment Technology Group) (ECN)</u>	4,408,309	43,857,490	37,306	0.09%	0.01	
<u>ITG (Investment Technology Group) (EM)</u>	9,389,130	9,580,783	9,092	0.09%	0.00	
Instinet	11,828,893	50,825,520	72,278	0.14%	0.01	
<u>Instinet (ECN)</u>	7,928,949	135,215,707	42,563	0.03%	0.01	
<u>Instinet (EM)</u>	11,174,595	13,427,248	20,586	0.15%	0.00	
Investec Securities	43,600	765,830	381	0.05%	0.01	
JP Morgan Chase & Company	680,106	13,080,080	16,872	0.13%	0.02	
<u>JP Morgan Chase & Company (ECN)</u>	1,154,620	20,919,477	15,995	0.08%	0.01	
Jefferies & Company	4,771,325	62,742,133	37,779	0.06%	0.01	
<u>Jefferies & Company (ECN)</u>	118,337	1,314,741	2,665	0.20%	0.02	
Joh. Berenberg, Gossler & Company	3,762	246,435	148	0.06%	0.04	
JonesTrading Institutional Services	334,300	2,869,914	1,147	0.04%	0.00	
Liquidnet	2,847,562	34,011,682	18,438	0.05%	0.01	
<u>Liquidnet (ECN)</u>	1,067,318	14,891,327	15,277	0.10%	0.01	
<u>Liquidnet (EM)</u>	2,316,200	2,139,392	1,283	0.06%	0.00	
Loop Capital Markets	19,800,495	278,722,828	177,519	0.06%	0.01	African American
Loop Capital Markets (EM)	861,160	3,142,916	3,408	0.11%	0.00	African American
Macquarie Securities	1,029,531	8,372,436	10,841	0.13%	0.01	
<u>Macquarie Securities (ECN)</u>	6,651,901	82,985,015	53,886	0.06%	0.01	
MainFirst	23,894	905,056	543	0.06%	0.02	
Maybank	606,000	1,126,023	2,935	0.26%	0.00	
Mediobanca	600	5,278	3	0.06%	0.01	
Merrill Lynch	2,921,869	39,920,187	19,718	0.05%	0.01	
Mirabaud Securities	1,500	926,997	1,850	0.20%	1.23	
Mischler Financial Group	2,441,916	32,596,779	18,642	0.06%	0.01	Disabled Veteran
Mischler Financial Group (EM)	1,873,950	10,971,366	12,941	0.12%	0.01	Disabled Veteran
Mizuho Securities	31,300	816,356	531	0.06%	0.02	
Morgan Stanley	10,556,083	100,638,606	67,050	0.07%	0.01	
<u>Morgan Stanley (ECN)</u>	1,058,672	12,760,672	9,615	0.08%	0.01	
National Bank Financial (Canada)	21,200	540,486	406	0.08%	0.02	
Nordea Bank	52,630	1,075,070	645	0.06%	0.01	
North South Capital	9,265,337	116,570,699	143,495	0.12%	0.02	Female
North South Capital (EM)	12,692,760	8,251,429	8,241	0.10%	0.00	Female
Northern Trust Securities	8,240,473	90,783,384	40,132	0.04%	0.00	

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - INTERNATIONAL EQUITIES

Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Amount Traded	Commissions	Per Cent Cost of Trade	Cents Per Share	Ownership (minority/female/disabled)
Numis	215,970	2,461,488	2,355	0.10%	0.01	
Oddo et Cie	7,600	86,253	52	0.06%	0.01	
Penserra Securities	21,846,502	134,910,366	79,936	0.06%	0.00	Latino
<u>Penserra Securities (EM)</u>	1,632,230	4,455,561	4,308	0.10%	0.00	Latino
Royal Bank of Canada	201,510	5,425,717	4,812	0.09%	0.02	
<u>Royal Bank of Canada (ECN)</u>	2,183,802	42,474,991	12,228	0.03%	0.01	
SMBC Nikko Securities	88,900	2,030,437	1,015	0.05%	0.01	
Sanford C. Bernstein	796,979	2,049,174	1,571	0.08%	0.00	
Scotia Capital	555,900	1,285,724	4,398	0.34%	0.01	
<u>Scotia Capital (ECN)</u>	76,008	2,445,270	430	0.02%	0.01	
Skandinaviska Enskilda Banken	37,000	322,730	194	0.06%	0.01	
Societe Generale Securities	11,633	532,546	821	0.15%	0.07	
<u>Societe Generale Securities (ECN)</u>	3,344,385	24,124,296	7,237	0.03%	0.00	
Stifel, Nicolaus & Company	3,000	108,259	65	0.06%	0.02	
Sumitomo Mitsui Banking Corporation	22,941	945,538	615	0.06%	0.03	
<u>Sumitomo Mitsui Banking Corporation (ECN)</u>	128,700	4,304,379	1,033	0.02%	0.01	
SunGard Brokerage & Securities Services	32,080	686,845	121	0.02%	0.00	
UBS	9,973,293	48,330,605	64,716	0.13%	0.01	
<u>UBS (ECN)</u>	2,216,870	27,596,213	20,417	0.07%	0.01	
<u>UBS (EM)</u>	24,000,816	40,684,167	62,081	0.15%	0.00	
UOB Kay Hian	9,400	180,799	272	0.15%	0.03	
<u>Virtu Financial Capital Markets (ECN)</u>	28,100	1,275,348	198	0.02%	0.01	
Williams Capital Group	21,196	270,570	848	0.31%	0.04	African American
Wood & Company	2,320	182,227	274	0.15%	0.12	
Grand Totals	322,337,231	\$ 2,268,620,538.63	\$ 1,789,341.84	0.08%	\$ 0.01	

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - INTERNATIONAL EQUITIES

Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Amount Traded	Commissions	Per Cent Cost of Trade	Cents Per Share	Ownership (minority/female/disabled)
Active International Equity						
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 15%						
Totals by Investment Manager						Per Cent of MFDB Usage
Ativo Capital Management	63,914,542	\$ 293,221,634.89	\$ 203,156.93	0.07%	\$ 0.00	76.08%
GlobeFlex Capital	121,181,425	379,846,095	570,413	0.15%	0.00	55.67%
Progress Investment Management	33,850,912	318,647,148	204,999	0.06%	0.01	41.08%
Strategic Global Advisors	33,690,317	350,563,649	173,968	0.05%	0.01	31.53%
Grand Totals, Active International Equity	<u>252,637,196</u>	<u>\$ 1,342,278,526.71</u>	<u>\$ 1,152,537.35</u>	<u>0.09%</u>	<u>\$ 0.00</u>	
Enhanced Active International Equity						
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 10%						
Totals by Investment Manager						Per Cent of MFDB Usage
Fidelity Institutional Asset Management	69,700,035	\$ 926,342,011.92	\$ 636,804.49	0.07%	\$ 0.01	35.17%
Grand Totals, Enhanced Active International Equity	<u>69,700,035</u>	<u>\$ 926,342,011.92</u>	<u>\$ 636,804.49</u>	<u>0.07%</u>	<u>\$ 0.01</u>	
<i>Total Electronic Communication Networks (ECN's)</i>	<u>39,393,531</u>	<u>\$ 580,379,250.20</u>	<u>\$ 328,400.97</u>	<u>0.06%</u>	<u>\$ 0.01</u>	
Per Cent of Total	12.22%	25.58%	18.35%			
<i>Total Emerging Markets (EM)</i>	<u>92,347,373</u>	<u>\$ 131,260,023.05</u>	<u>\$ 167,738.62</u>	<u>0.13%</u>	<u>\$ 0.00</u>	
Per Cent of Total	28.65%	5.79%	9.37%			
Total MFDB Firms	<u>141,738,953</u>	<u>\$ 769,493,942.17</u>	<u>\$ 655,182.37</u>	<u>0.09%</u>	<u>\$ 0.00</u>	
Per Cent of Total less ECN's and Emerging Markets	61.45%	47.78%	48.49%			
Breakdown of Reported Firms (in Dollars)						
African American	20,845,851	\$ 283,524,284.34	\$ 183,995.23	0.06%	\$ 0.01	3 Firms
Latino	46,849,737	219,517,095	141,786	0.06%	0.00	2 Firms
Asian	4,500	562,126	90	0.02%	0.02	1 Firm
Female	69,722,999	222,322,292	297,728	0.13%	0.00	4 Firms
Disabled Veteran	4,315,866	43,568,145	31,583	0.07%	0.01	1 Firm
Native American	-	-	-			0 Firms
Total MFDB Firms	<u>141,738,953</u>	<u>\$ 769,493,942.17</u>	<u>\$ 655,182.37</u>	<u>0.09%</u>	<u>\$ 0.00</u>	11 Firms
Breakdown of Reported Firms (in Per Cent)						
African American	9.04%	17.60%	13.62%			
Latino	20.31%	13.63%	10.49%			
Asian	0.00%	0.03%	0.01%			
Female	30.23%	13.80%	22.04%			
Disabled Veteran	1.87%	2.71%	2.34%			
Native American	0.00%	0.00%	0.00%			
Total MFDB Firms	<u>61.45%</u>	<u>47.78%</u>	<u>48.49%</u>			

STATE UNIVERSITIES RETIREMENT SYSTEM
BROKERAGE COST REVIEW - GLOBAL EQUITIES

Trades from January 1, 2019 through December 31, 2019

	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
ABG Sundal Collier Norge Asa	16,849	\$ 1,507	\$ 0.09	
Abel/Noser	9,910	248	0.03	
Academy Securities	123,137	2,233	0.02	Disabled Veteran
<u>Academy Securities (EM)</u>	135,103	310	0.00	Disabled Veteran
Allen & Company	53,371	1,210	0.02	
<u>Asia Pacific Markets Program (ECN)</u>	10,800	199	0.02	
BMO Capital Markets	175,427	4,650	0.03	
<u>BMO Capital Markets (ECN)</u>	408,009	3,060	0.01	
BNP Paribas	8,800	509	0.06	
BOE Securities	10,523	315	0.03	African American
BOSC	2,100	46	0.02	
<u>BTG Pactual (EM)</u>	404,599	5,900	0.01	
BTIG (Bass Trading International Group)	133,977	3,915	0.03	
<u>Banco Bradesco (EM)</u>	658,808	8,344	0.01	
<u>Banco Itau (EM)</u>	177,818	2,879	0.02	
Bank of America	314,837	8,806	0.03	
<u>Bank of America (ECN)</u>	794,345	667	0.00	
<u>Bank of America (EM)</u>	152,745	1,764	0.01	
<u>Bank of America (ECN) (EM)</u>	33,439	134	0.00	
Bank of America Securities	1,011,589	18,360	0.02	
<u>Bank of America Securities (ECN)</u>	1,413,418	5,040	0.00	
<u>Bank of America Securities (EM)</u>	1,651,675	8,889	0.01	
<u>Bank of America Securities (ECN) (EM)</u>	175,414	530	0.00	
Barclays	307,335	10,130	0.03	
<u>Barclays (ECN)</u>	349,721	2,548	0.01	
<u>Barclays (ECN) (EM)</u>	6,899	2	0.00	
Berenberg Bank	104,037	2,654	0.03	
<u>BlockCross Holdings (ECN)</u>	10,604	80	0.01	
<u>Brasil Plural Securities (EM)</u>	42,537	539	0.01	
CAPIS (Capital Institutional Services)	32,290	807	0.03	Female
CIBC (Canadian Imperial Bank of Commerce)	800	12	0.02	
CL King & Associates	158,381	3,379	0.02	Female
CLSA	3,442,399	7,467	0.00	
<u>CLSA (ECN)</u>	2,207,814	7,963	0.00	
<u>CLSA (EM)</u>	4,596,076	15,528	0.00	
Cabrera Capital Markets	698,139	16,595	0.02	Latino
<u>Cabrera Capital Markets (ECN)</u>	817,012	9,913	0.01	Latino
Canaccord Genuity Canada	92,841	375	0.00	
Cantor Fitzgerald	37,827	938	0.02	
Carnegie	127,173	1,570	0.01	
<u>Carnegie (ECN)</u>	46,096	461	0.01	
CastleOak Securities	312,382	4,690	0.02	African American
China International Capital	176,000	85	0.00	
Citigroup Global Markets	2,686,792	28,353	0.01	
<u>Citigroup Global Markets (ECN)</u>	611,050	7,155	0.01	
<u>Citigroup Global Markets (EM)</u>	964,205	1,442	0.00	
<u>Citigroup Global Markets (ECN) (EM)</u>	26,148	101	0.00	
Cowen & Company	146,219	4,916	0.03	
<u>Cowen & Company (ECN)</u>	1,140,760	10,028	0.01	
Credit Suisse	1,229,267	25,372	0.02	
<u>Credit Suisse (ECN)</u>	2,029,716	11,403	0.01	
<u>Credit Suisse (EM)</u>	295,241	21,417	0.07	
<u>Credit Suisse (ECN) (EM)</u>	190,098	392	0.00	
Cuttone & Company	33,919	340	0.01	
Daewoo Securities	9,000	168	0.02	
Daiwa Securities Group	424,800	3,826	0.01	
<u>Daiwa Securities Group (ECN)</u>	20,000	5	0.00	
Danske Bank	73,520	2,801	0.04	
Deutsche Bank	465,660	14,663	0.03	
<u>Deutsche Bank (ECN)</u>	253,679	1,737	0.01	
<u>Deutsche Bank (EM)</u>	3,272,839	653	0.00	
<u>Deutsche Bank (ECN) (EM)</u>	270,021	1,180	0.00	
DnB NOR Markets	28,508	925	0.03	
Drexel Hamilton	249,739	4,996	0.02	Disabled Veteran
Equita SIM S.p.A. (Euromobiliare)	7,747	875	0.11	
Evans & Partners	34,455	455	0.01	

STATE UNIVERSITIES RETIREMENT SYSTEM
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	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
Evercore Partners	297,698	6,383	0.02	
<u>Evercore Partners (ECN)</u>	477,238	4,458	0.01	
Exane	558,754	2,354	0.00	
<u>Exane (ECN)</u>	461,153	6,977	0.02	
Fidelity Capital Markets	2,349	47	0.02	
Goldman Sachs	2,459,146	37,999	0.02	
<u>Goldman Sachs (ECN)</u>	6,441,741	8,633	0.00	
<u>Goldman Sachs (EM)</u>	40,418	144	0.00	
<u>Goldman Sachs (ECN) (EM)</u>	16,085	242	0.02	
Goodbody	15,401	88	0.01	
Guggenheim Capital Markets	11,336	340	0.03	
Guzman & Company	45,659	921	0.02	Latino
HSBC	281,579	1,290	0.00	
<u>HSBC (ECN)</u>	2,217,000	1,186	0.00	
<u>HSBC (EM)</u>	171,000	2,308	0.01	
Haitong Securities Company	65,000	102	0.00	
Height Securities	1,000	20	0.02	
Helvea	2,077	256	0.12	
IFS Securities	71,986	1,800	0.03	African American
INTL FCStone	17,800	1,134	0.06	
<u>ITG (Investment Technology Group) (ECN)</u>	723,016	4,612	0.01	
Instinet	807,548	12,728	0.02	
<u>Instinet (ECN)</u>	747,537	9,659	0.01	
Investec Securities	48,526	559	0.01	
JMP Securities	743	19	0.03	
JP Morgan Chase & Company	1,726,961	35,066	0.02	
<u>JP Morgan Chase & Company (ECN)</u>	2,477,681	5,886	0.00	
<u>JP Morgan Chase & Company (EM)</u>	791,740	6,133	0.01	
<u>JP Morgan Chase & Company (ECN) (EM)</u>	90,000	183	0.00	
Janney Montgomery Scott	12,981	322	0.02	
Jefferies & Company	1,569,721	27,372	0.02	
<u>Jefferies & Company (ECN)</u>	2,254,230	22,547	0.01	
<u>Jefferies & Company (EM)</u>	32,500	121	0.00	
Jones & Associates	2,200	62	0.03	
Keefe, Bruyette & Woods	121,670	2,401	0.02	
Kempen & Company	3,234	126	0.04	
Kepler Capital Markets	17,540	578	0.03	
KeyBanc Capital Markets	59,211	1,616	0.03	
<u>Korea Investment & Securities Co. (EM)</u>	17,976	1,093	0.06	
Leerink Swann & Company	2,900	58	0.02	
Liquidnet	2,053,349	7,649	0.00	
<u>Liquidnet (ECN)</u>	1,172,931	8,507	0.01	
<u>Liquidnet (EM)</u>	1,526,964	549	0.00	
Loop Capital Markets	5,555,110	19,118	0.00	African American
<u>Loop Capital Markets (ECN)</u>	488,092	2,121	0.00	African American
<u>Loop Capital Markets (EM)</u>	214,600	900	0.00	African American
Luminex Trading & Analytics	1,900	10	0.01	
<u>Luminex Trading & Analytics (ECN)</u>	214,347	1,072	0.01	
Macquarie Securities	885,342	13,983	0.02	
<u>Macquarie Securities (ECN)</u>	964,562	3,669	0.00	
<u>Macquarie Securities (EM)</u>	1,210,030	3,404	0.00	
Mediobanca	16,168	1,873	0.12	
<u>Merrill Lynch (ECN)</u>	655,870	3,991	0.01	
Mirabaud Securities	13,046	341	0.03	
Mischler Financial Group	1,085,137	11,713	0.01	Disabled Veteran
Mitsubishi UFJ Securities	33,500	1,350	0.04	
Mizuho Securities	207,355	6,313	0.03	
<u>Mizuho Securities (ECN)</u>	2,500	58	0.02	
Morgan Stanley	1,602,149	36,119	0.02	
<u>Morgan Stanley (ECN)</u>	3,327,309	20,608	0.01	
<u>Morgan Stanley (EM)</u>	2,078,097	16,365	0.01	
<u>Morgan Stanley (ECN) (EM)</u>	277,126	270	0.00	
<u>NH Investment & Securities Company (EM)</u>	2,622	156	0.06	
Needham & Company	1,300	26	0.02	
Nomura	101,100	747	0.01	
<u>Nomura (ECN)</u>	2,319,334	12,356	0.01	

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	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
<u>Nomura (EM)</u>	286,476	1,111	0.00	
Nordea Bank	60,892	1,921	0.03	
North South Capital	237,913	5,948	0.03	Female
Oddo et Cie	20,760	463	0.02	
Oppenheimer & Company	37,467	1,261	0.03	
Peel Hunt	208,884	191	0.00	
Penserra Securities	473,297	18,533	0.04	Latino
Piper Jaffray & Company	54,162	1,662	0.03	
RBC Capital Markets	154,319	6,366	0.04	
<u>RBC Capital Markets (ECN)</u>	1,107,026	9,908	0.01	
Raymond James & Associates	39,473	1,285	0.03	
<u>Raymond James & Associates (ECN)</u>	19,561	176	0.01	
Redburn Partners	329,384	3,471	0.01	
<u>Redburn Partners (ECN)</u>	448,660	4,695	0.01	
Robert W. Baird & Company	139,408	4,303	0.03	
<u>Robert W. Baird & Company (ECN)</u>	23,266	194	0.01	
SEB Enskilda	54,461	195	0.00	
SMBC Nikko Securities	120,600	4,403	0.04	
<u>SMBC Nikko Securities (ECN)</u>	23,400	466	0.02	
<u>Samsung Securities (EM)</u>	30,998	1,884	0.06	
Sanford C. Bernstein	2,267,780	12,824	0.01	
<u>Sanford C. Bernstein (ECN)</u>	5,126,574	28,129	0.01	
<u>Sanford C. Bernstein (ECN) (EM)</u>	3,894,167	626	0.00	
<u>Santander Investment Securities (EM)</u>	7,200	99	0.01	
<u>Scotia Capital (ECN)</u>	136,700	960	0.01	
Siebert Brandford Shank & Company	141,160	3,534	0.03	African American
<u>Siebert Brandford Shank & Company (EM)</u>	28,300	749	0.03	African American
Skandinaviska Enskilda Banken	44,449	1,590	0.04	
Societe Generale Securities	42,600	129	0.00	
<u>Societe Generale Securities (EM)</u>	28,000	66	0.00	
Stephens	4,400	154	0.04	
Stifel, Nicolaus & Company	111,096	3,393	0.03	
<u>Stifel, Nicolaus & Company (ECN)</u>	57,131	469	0.01	
Stuart Frankel & Co.	2,011	50	0.03	
Sturdivant and Company	40,200	1,005	0.03	African American
Sumitomo Mitsui Banking Corporation	379,900	4,558	0.01	
<u>Sumitomo Mitsui Banking Corporation (ECN)</u>	114,100	2,101	0.02	
SunTrust Robinson Humphrey	16,789	524	0.03	
Telsey Advisory Group	1,569,117	30,787	0.02	Female
UBS	1,564,211	45,958	0.03	
<u>UBS (ECN)</u>	3,711,299	15,495	0.00	
<u>UBS (EM)</u>	573,197	2,440	0.00	
<u>UBS (ECN) (EM)</u>	537,711	357	0.00	
Virtu Financial Capital Markets	1,030,745	5,718	0.01	
<u>Virtu Financial Capital Markets (ECN)</u>	2,284,413	10,764	0.00	
<u>Virtu Financial Capital Markets (EM)</u>	262,911	265	0.00	
<u>Virtu Financial Capital Markets (ECN) (EM)</u>	26,918	369	0.01	
Vontobel	1,970	119	0.06	
<u>Wall Street Access (ECN)</u>	100,459	750	0.01	
Wedbush Morgan Securities	627	13	0.02	
Weeden & Company	15,405	492	0.03	
Wells Fargo Advisors	130,051	4,519	0.03	
<u>Wells Fargo Advisors (ECN)</u>	3,750	28	0.01	
William Blair & Company	47,690	1,103	0.02	
Williams Capital Group	237,267	5,731	0.02	African American
Wolfe Trahan Securities	44,271	1,079	0.02	
Grand Totals	115,533,590	\$ 944,924	\$ 0.01	

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	Shares Traded	Commissions	Cents Per Share	Ownership (minority/female/disabled)
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 20%				
Totals by Investment Manager				Per Cent of MFDB Usage
Mondrian Investment Partners	28,112,509	\$ 108,615	\$ 0.00	38.02%
T. Rowe Price	32,789,017	501,309	0.02	22.38%
Wellington Management Company	54,632,064	335,001	0.01	22.89%
Grand Totals	115,533,590	\$ 944,924	\$ 0.01	
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<i>Total Electronic Communication Networks (ECN's)</i>	53,757,930	\$ 255,118	\$ 0.00	
Per Cent of Total	46.53%	27.00%		
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<i>Total Emerging Markets (EM)</i>	25,198,701	\$ 109,838	\$ 0.00	
Per Cent of Total	21.81%	11.62%		
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Total MFDB Firms	12,724,544	\$ 146,097	\$ 0.01	
Per Cent of Total less ECN's and Emerging Markets	29.05%	24.42%		
<hr/>				
Breakdown of Reported Firms (in Dollars)				
African American	7,099,620	\$ 39,962	\$ 0.01	7 Firms
Latino	2,034,107	45,962	0.02	3 Firms
Asian	-	-		0 Firms
Female	1,997,701	40,921	0.02	4 Firms
Disabled Veteran	1,593,116	19,252	0.01	3 Firms
Native American	-	-		0 Firms
Total MFDB Firms	12,724,544	\$ 146,097	\$ 0.01	17 Firms
<hr/>				
Breakdown of Reported Firms (in Per Cent)				
African American	16.21%	6.68%		
Latino	4.64%	7.68%		
Asian	0.00%	0.00%		
Female	4.56%	6.84%		
Disabled Veteran	3.64%	3.22%		
Native American	0.00%	0.00%		
Total MFDB Firms	29.05%	24.42%		

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BROKERAGE COST REVIEW - FIXED INCOME (CORE)

Trades from January 1, 2019 through December 31, 2019

	Market Value Traded	Par Value Traded	Ownership (minority/female/disabled)
ASL Capital Markets Inc.	\$ 5,229,647	\$ 4,910,000	Asian American
Academy Securities	200,000	200,000	Disabled Veteran
<u>Academy Securities (ECN)</u>	7,293,539	7,290,000	Disabled Veteran
Academy Securities	34,606,405	31,090,000	Disabled Veteran
Alamo Capital	76,407,247	75,424,000	Female
American Veterans Group, PBC	111,620	90,000	Disabled Veteran
Amherst Securities Group	17,657,617	16,592,283	
<u>Amherst Securities Group (ECN)</u>	700,160	605,000	
B Riley & Company	1,634,961	1,300,000	
BB&T	18,393,313	14,992,096	
BBVA Bolsa S.V. S.A.	2,169,132	2,075,000	
BCP Securities	25,977,554	26,057,667	
BCS Global Markets/BCS Americas Inc.	207,333	400,000	
BMO Capital Markets	29,532,063	29,297,036	
BNP Paribas	106,405,682	110,282,649	
<u>BNP Paribas (ECN)</u>	3,287,900	3,200,000	
BNY Mellon	8,779,394	8,654,858	
BOSC	818,608	794,066	
BTIG (Bass Trading International Group)	2,273,912	2,290,000	
Banca IMI Securities	949,114	862,995	
Banco Bilbao Vizcaya	4,345,407	6,190,000	
Banco Bradesco	1,542,797	1,500,000	
Banco Santander	2,359,044	2,078,870	
Bancroft Capital	3,600,000	3,600,000	Disabled Veteran
Bank of America	275,592,262	270,126,853	
<u>Bank of America (ECN)</u>	70,067,301	65,950,000	
Bank of America Securities	219,142,270	217,333,995	
Bank of New York ConvergEx Execution	152,990	155,000	
Bank of Nova Scotia	3,764,379	3,715,356	
Bank of Oklahoma	7,091,664	6,912,309	
Barclays	310,426,952	303,510,182	
<u>Barclays (ECN)</u>	20,054,875	19,613,000	
Blaylock Robert Van	229,078	230,000	African American
Brean Capital	31,412,510	77,636,725	
<u>Brean Capital (ECN)</u>	838,931	805,334	
Brownstone Investment Group	381,783	365,000	
CAPIS (Capital Institutional Services)	13,111,625	12,795,000	Female
CIBC (Canadian Imperial Bank of Commerce)	3,425,456	3,660,000	
CL King & Associates	128,804	130,000	Female
Cabrera Capital Markets	620,949,631	595,072,805	Latino
<u>Cabrera Capital Markets (ECN)</u>	51,087,364	50,165,000	Latino
Canaccord Genuity Canada	271,054	300,000	
Cantella & Co.	8,464,813	8,410,000	
Cantor Fitzgerald	12,718,429	12,662,816	
Capital Investment Services, Inc	887,681	845,000	Female
CastleOak Securities	925,856,406	915,772,553	African American
<u>CastleOak Securities (ECN)</u>	3,118,392	3,065,000	African American
Citadel Securities	60,386,046	60,430,000	
Citibank	17,192,913	17,076,068	
Citigroup Global Markets	678,474,749	669,463,323	
<u>Citigroup Global Markets (ECN)</u>	27,124,402	25,550,000	
Citizens Bank	1,108,385	1,107,330	
Credit Agricole	19,543,109	18,737,542	
Credit Suisse	239,613,507	246,046,224	
<u>Credit Suisse (ECN)</u>	1,051,084	917,000	
DBS Bank	374,349	280,000	
Daiwa Securities Group	3,629,563	3,435,573	
Danske Bank	2,655,343	2,380,286	
Deutsche Bank	213,633,168	206,046,679	
<u>Deutsche Bank (ECN)</u>	43,577,906	42,950,000	
Drexel Hamilton	366,336	365,000	Disabled Veteran
FHN Financial Securities	1,596,432	1,500,000	
FTN Financial Capital Markets	8,211,649	7,942,343	
<u>FTN Financial Capital Markets (ECN)</u>	755,020	705,000	
Falcon Square Capital	6,279,448	5,785,000	Female
Fifth Third Securities, Inc.	3,476,165	3,295,000	
First Tennessee	61,471,761	58,366,567	
First Tryon Securities	449,308	450,000	
GMP Securities	174,204	195,000	
Goldman Sachs	859,883,277	833,528,744	
<u>Goldman Sachs (ECN)</u>	19,660,904	18,176,000	
Great Pacific Securities	63,847,080	61,965,000	Disabled Veteran
Guggenheim Capital Markets	1,738,025	2,315,000	
HSBC	160,409,117	165,373,153	

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	Market Value Traded	Par Value Traded	Ownership (minority/female/disabled)
<u>HSBC (ECN)</u>	853,156	800,000	
Hilltop Securities	1,562,591	1,536,817	
ING Bank	5,735,161	5,444,978	
INTL FCStone	82,949,032	85,572,891	
JMP Securities	3,715,905	3,500,000	
JP Morgan Chase & Company	747,245,018	745,228,163	
<u>JP Morgan Chase & Company (ECN)</u>	45,563,552	45,552,000	
Jane Street Execution Services, LLC	2,794,965	2,580,000	
Janney Montgomery Scott	60,660,608	61,534,670	
Jefferies & Company	203,924,217	192,236,700	
<u>Jefferies & Company (ECN)</u>	1,938,329	1,860,000	
KeyBanc Capital Markets	18,372,258	16,284,000	
<u>KeyBanc Capital Markets (ECN)</u>	895,889	779,000	
Larrain Vial. S.A.	423,242	400,000	
Lloyds	1,406,453	1,405,510	
Loop Capital Markets	683,524,331	677,261,832	African American
<u>Loop Capital Markets (ECN)</u>	47,329,767	47,015,000	African American
MFR Securities	113,685,679	109,127,365	Latino Female
Macquarie Securities	811,983	839,259	
MarketAxess	51,973,728	49,422,366	
<u>MarketAxess (ECN)</u>	11,872,720	11,400,000	
Merrill Lynch	83,622,779	82,230,966	
<u>Merrill Lynch (ECN)</u>	804,415	800,000	
Mesirow Financial	102,583	102,734	
Millennium Advisors	16,166,657	14,278,000	
<u>Millennium Advisors (ECN)</u>	1,498,282	1,412,000	
Mischler Financial Group	77,070,955	75,655,362	Disabled Veteran
<u>Mischler Financial Group (ECN)</u>	9,061,459	9,100,000	Disabled Veteran
Mitsubishi UFJ Securities	23,716,897	22,547,282	
<u>Mitsubishi UFJ Securities (ECN)</u>	2,004,669	1,910,000	
Mizuho Securities	170,331,820	166,761,896	
<u>Mizuho Securities (ECN)</u>	980,191	990,000	
Morgan Stanley	473,279,526	459,613,976	
<u>Morgan Stanley (ECN)</u>	19,663,108	18,778,000	
Multi-Bank Securites	514,964	565,000	
NatWest Markets Securities Inc	19,304,921	18,670,359	
National Alliance Securities	612,902	1,385,000	
National Bank Financial (Canada)	4,184,294	4,075,000	
Natixis Securities Americas	190,480	175,000	
Nomura	206,644,398	202,202,935	
<u>Nomura (ECN)</u>	6,978,414	7,000,000	
Northern Trust Securities	19,151,559	17,070,000	
Oppenheimer & Company	26,721,394	25,081,657	
PFPC Distributors	143,606	143,606	
PNC Capital Markets	581,209	575,000	
Penserra Securities	2,900,894	2,800,000	Latino
Performance Trust Capital Partners	1,723,625	1,723,625	
Pierpont Securities	2,022,799	1,750,000	
Piper Jaffray & Company	111,810	100,000	
RBC Capital Markets	85,133,536	83,005,051	
<u>RBC Capital Markets (ECN)</u>	18,463,551	17,760,000	
RBC Dain Rauscher	55,199,363	55,140,000	
RBS Securities	57,454,587	57,173,463	
<u>RBS Securities (ECN)</u>	976,143	975,000	
RJ O'Brien & Associates	788	788	
RW Pressprich & Company	5,809,599	5,567,432	
Ramirez & Company	656,898	545,000	Latino
Raymond James & Associates	12,981,646	11,861,164	
Robert W. Baird & Company	41,128,009	39,854,609	
Royal Bank of Canada	31,562,488	29,690,184	
SG Americas Securities	2,868,190	2,665,000	
<u>SG Americas Securities (ECN)</u>	641,964	630,000	
SMBC Nikko Securities	1,089,065	1,000,000	
SMBC Nikko Securities	1,163,123	1,170,000	
Sandler O'Neil and Partners	601,392	575,000	
Santander Central Hispano	490,678	485,000	
Santander Investment Securities	5,081,486	5,445,000	
Sberbank CIB USA, Inc	452,822	400,000	
Scotia Capital	11,695,743	11,235,190	
<u>Scotia Capital (ECN)</u>	994,938	1,025,000	
Seaport Group	10,606,200	10,541,160	
Societe Generale Securities	62,980,328	61,520,527	
Southwest Securities	1,006,167	915,000	
Standard Chartered	21,962,020	20,845,221	

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	<u>Market Value Traded</u>	<u>Par Value Traded</u>	<u>Ownership</u> <u>(minority/female/disabled)</u>
State Street Bank & Trust	45,327,555	41,455,000	
Stephens	19,810,386	19,056,494	
Stifel, Nicolaus & Company	23,290,208	22,322,000	
SumRidge Partners	9,945,705	9,265,000	
Sumitomo Mitsui Banking Corporation	1,946,612	1,900,000	
SunTrust Robinson Humphrey	15,226,811	14,753,081	
<u>SunTrust Robinson Humphrey (ECN)</u>	835,215	810,000	
Susquehanna Financial Group	7,957,958	7,425,000	
<u>Susquehanna Financial Group (ECN)</u>	5,319,881	5,055,000	
Susquehanna International Group	2,752,278	2,700,000	
TD Securities	50,424,186	50,561,832	
Toronto Dominion Bank	2,544,693	2,435,000	
Tradeweb Direct	2,299,303	2,260,000	
Tribal Capital Markets	7,535,547	7,510,000	Native American
UBS	107,643,179	108,316,866	
US Bancorp	13,222,518	12,346,000	
<u>US Bancorp (ECN)</u>	4,397,333	4,210,000	
Uni Credit Capital	309,563	300,000	
UniCredit Banca Mobiliare S.p.A.	1,220,645	923,336	
VTB Capital	8,196,812	7,423,000	
Wall Street Access	20,000	20,000	
Wells Fargo Advisors	406,380,772	393,712,412	
<u>Wells Fargo Advisors (ECN)</u>	43,736,103	43,115,000	
Westpac Group	27,364,782	26,178,000	
William Blair & Company	193,000	200,000	
Williams Capital Group	880,096,688	837,298,943	African American
<u>Williams Capital Group (ECN)</u>	3,493,781	3,500,000	African American
Grand Totals	<u>\$ 10,810,161,778</u>	<u>\$ 10,615,744,981</u>	

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Trades from January 1, 2019 through December 31, 2019

	Market Value Traded	Par Value Traded	Ownership (minority/female/disabled)	
			Based on Mkt Value	Based on Par Value
Fixed Income (Core)				
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 20%				
Per Cent of MFDB Usage				
Totals by Investment Manager			Based on Mkt Value	Based on Par Value
Garcia Hamilton & Associates	\$ 845,168,230		53.95%	53.24%
LM Capital Group	330,728,430		69.75%	68.64%
Neuberger Berman	3,165,761,900		26.76%	26.14%
PIMCO	1,827,099,674		31.25%	32.27%
Progress Investment Management	961,969,940		26.88%	26.14%
Pugh Capital Management	759,215,571		40.26%	40.75%
RhumbLine Advisers	188,721,072		78.05%	79.80%
Smith Graham & Company	77,044,468		44.72%	44.80%
State Street Global Advisors	56,909,279		100.00%	100.00%
TCW MetWest	1,938,914,469		32.71%	32.71%
Grand Totals	<u>\$ 10,151,533,031</u>			

Fixed Income (TIPS)
Expected Usage of Minority-, Female- and Persons with a Disability-Owned (MFDB) Brokerage Firms: 20%

	Market Value Traded	Par Value Traded	Per Cent of MFDB Usage	
			Based on Mkt Value	Based on Par Value
Totals by Investment Manager				
RhumbLine Advisers	\$ 658,628,747		38.82%	38.06%
Grand Totals	<u>\$ 658,628,747</u>			

Total Electronic Communication Networks (ECN's) 476,920,635
Per Cent of Total 4.41%

Total Emerging Markets (EM) -
Per Cent of Total 0.00%

Total MFDB Firms \$ 3,638,666,301 \$ 3,538,607,860
Per Cent of Total less ECN's and Emerging Markets 34.80% 34.45%

Breakdown of Reported Firms (in Dollars)

African American	\$ 2,543,648,443	4 Firms
Latino	789,280,465	4 Firms
Asian	5,229,647	1 Firm
Female	96,814,805	5 Firms
Disabled Veteran	196,157,394	7 Firms
Native American	7,535,547	1 Firm
Total MFDB Firms	<u>\$ 3,638,666,301</u>	22 Firms

Breakdown of Reported Firms (in Per Cent)

African American	24.33%
Latino	7.55%
Asian	0.05%
Female	0.93%
Disabled Veteran	1.88%
Native American	0.07%
Total MFDB Firms	<u>34.80%</u>

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF PENDING CLASS ACTIONS

As of December 31, 2019

Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
6/24/2014	5/30/2017	2218632	RHUMBLINE EQUITY	ADEPTUS HEALTH INC.	NOTIFIED
6/24/2014	5/30/2017	2255942	NORTHERN TRUST ASSET MGMT	ADEPTUS HEALTH INC.	NOTIFIED
7/27/2000	11/8/2002	2271463	NTGI RESTRUCTURING ACCT	AES CORP COM	DISBRNSG
3/15/2006	9/16/2008	SUR12	WESTERN ASSET MGMT	AIG II	CLOSED
3/15/2006	9/16/2008	SUR15	WELLINGTON MGMT	AIG II	CLOSED
3/15/2006	9/16/2008	SUR14	CAPITAL GUARDIAN	AIG II	CLOSED
3/15/2006	9/16/2008	SUR13	BLACKROCK CORE PLUS	AIG II	CLOSED
3/15/2006	9/16/2008	SUR17	PIMCO TIPS	AIG II	CLOSED
3/15/2006	9/16/2008	SUR21	PIMCO TOTAL RETURN	AIG II	CLOSED
3/15/2006	9/16/2008	SUR27	PIMCO STOCKSPLUS	AIG II	CLOSED
3/15/2006	9/16/2008	SUR40	CALAMOS INVESTMENTS	AIG II	CLOSED
3/15/2006	9/16/2008	2202262	RASARA STRATEGIES EQUITY	AIG II	CLOSED
3/15/2006	9/16/2008	2202263	NEW AMSTERDAM ACTIVE	AIG II	CLOSED
3/15/2006	9/16/2008	2211578	PROGRESS PALISADES INVESTMENT	AIG II	CLOSED
3/15/2006	9/16/2008	2211579	PROGRESS DENALI ADVISORS	AIG II	CLOSED
3/15/2006	9/16/2008	2211789	TRANSITION	AIG II	CLOSED
3/15/2006	9/16/2008	2218531	ZENNA FINANCIAL	AIG II	CLOSED
3/15/2006	9/16/2008	2218632	RHUMBLINE EQUITY	AIG II	CLOSED
3/15/2006	9/16/2008	2240979	NTGA EMERGING ADVISORS	AIG II	CLOSED
3/15/2006	9/16/2008	2248908	BGI TRANSITION ACCOUNT	AIG II	CLOSED
3/15/2006	9/16/2008	2255942	NORTHERN TRUST ASSET MGMT	AIG II	CLOSED
3/15/2006	9/16/2008	2292745	JACOBS LEVY EQUITY MGMT	AIG II	CLOSED
3/15/2006	9/16/2008	2292746	PIEDMONT INVESTMENT ADVISORS	AIG II	CLOSED
3/15/2006	9/16/2008	2292747	T ROWE PRICE	AIG II	CLOSED
10/27/1999	12/15/2010	2268236	FAYEZ SAROFIM	AIG-GENERAL REINSURANCE CORP	DISBRNSG
10/27/1999	12/15/2010	2271463	NTGI RESTRUCTURING ACCT	AIG-GENERAL REINSURANCE CORP	DISBRNSG
11/2/2016	4/8/2019	2218632	RHUMBLINE EQUITY	AKORN INC	FILED
11/2/2016	4/8/2019	2255942	NORTHERN TRUST ASSET MGMT	AKORN INC	FILED
5/8/2013	10/3/2017	SUR38	TRANSITION	ALERE INC.	FILED
9/17/2014	10/5/2015	SUR15	WELLINGTON MGMT	ALIBABA GROUP HOLDING LIMITED (CALI SC)	FILED
9/17/2014	10/5/2015	SUR41	T. ROWE PRICE	ALIBABA GROUP HOLDING LIMITED (CALI SC)	FILED
9/17/2014	10/5/2015	SUR53	PROGRESS GLOVISTA INVESTMENTS	ALIBABA GROUP HOLDING LIMITED (CALI SC)	FILED
9/18/2014	4/28/2015	SUR15	WELLINGTON MGMT	ALIBABA GROUP HOLDING LIMITED (S.D.N.Y.)	FILED
9/18/2014	4/28/2015	SUR41	T. ROWE PRICE	ALIBABA GROUP HOLDING LIMITED (S.D.N.Y.)	FILED
6/5/2015	8/7/2018	SUR38	TRANSITION	ALLEGiant TRAVEL COMPANY	NOTIFIED
6/5/2015	8/7/2018	2206616	PROGRESS STONERIDGE	ALLEGiant TRAVEL COMPANY	NOTIFIED
6/5/2015	8/7/2018	2218632	RHUMBLINE EQUITY	ALLEGiant TRAVEL COMPANY	NOTIFIED
6/5/2015	8/7/2018	2234108	MATARIN CAP SMALL CORE	ALLEGiant TRAVEL COMPANY	NOTIFIED
6/5/2015	8/7/2018	2255942	NORTHERN TRUST ASSET MGMT	ALLEGiant TRAVEL COMPANY	NOTIFIED
6/5/2015	8/7/2018	2292745	JACOBS LEVY EQUITY MGMT	ALLEGiant TRAVEL COMPANY	NOTIFIED
2/24/2014	4/21/2014	2255942	NORTHERN TRUST ASSET MGMT	ALLERGAN, INC. (2014)	DISBRNSG
2/24/2014	4/21/2014	2292747	T ROWE PRICE	ALLERGAN, INC. (2014)	DISBRNSG
12/29/2000	12/29/2000	2255942	NORTHERN TRUST ASSET MGMT	ALLIANCE PHARMACEUTICALS CORP	FILED
12/21/2012	12/22/2014	2218632	RHUMBLINE EQUITY	ALTISOURCE RESIDENTIAL CORPORATION	FILED
12/21/2012	12/22/2014	2255942	NORTHERN TRUST ASSET MGMT	ALTISOURCE RESIDENTIAL CORPORATION	FILED
2/24/2004	8/13/2010	2255942	NORTHERN TRUST ASSET MGMT	AMERICAN DENTAL PARTNER'S INC.	DISBRNSG
2/24/2004	8/13/2010	2292747	T ROWE PRICE	AMERICAN DENTAL PARTNER'S INC.	DISBRNSG
2/27/2013	1/30/2015	SUR48	NEUBERGER BERMAN	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
2/27/2013	1/30/2015	SUR29	CBRE CLARION GLOBAL REIT	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
2/27/2013	1/30/2015	2203636	CBRE CLARION REAL ESTATE SECURITIES	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
2/27/2013	1/30/2015	2206616	PROGRESS STONERIDGE	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
2/27/2013	1/30/2015	2207289	TCW METWEST	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
2/27/2013	1/30/2015	2255942	NORTHERN TRUST ASSET MGMT	AMERICAN REALTY CAP PROPERTIES INC. 2014	FILED
3/1/2002	3/4/2003	2255942	NORTHERN TRUST ASSET MGMT	ANDRX CORP	DISBRNSG
5/1/2006	1/30/2007	2219049	CHANNING CAPITAL MGMT	ARAMARK CORP	FILED
12/22/2005	5/2/2006	2203636	CBRE CLARION REAL ESTATE SECURITIES	ARDEN REALTY INC	FILED
12/22/2005	5/2/2006	2203638	RREEF REIT	ARDEN REALTY INC	FILED

*FILED - Class Action has been filed with Claims Administrator

DISBRNSG - Class Action has begun Disbursing payments

NOTIFIED - TNT has been notified of this Class Action and is preparing to file on SURS behalf

Schedule K

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF PENDING CLASS ACTIONS

As of December 31, 2019

Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
12/22/2005	5/2/2006	2255942	NORTHERN TRUST ASSET MGMT	ARDEN REALTY INC	FILED
3/14/2008	4/27/2011	2255942	NORTHERN TRUST ASSET MGMT	ARENA PHARMACEUTICALS, INC.	FILED
2/6/1997	3/31/1999	2255942	NORTHERN TRUST ASSET MGMT	ASSISTED LIVING CONCEPTS, INC.	DISBRNSG
10/25/2010	10/18/2011	2218632	RHUMBLINE EQUITY	AUTOLIV INC.	DISBRNSG
10/25/2010	10/18/2011	2292745	JACOBS LEVY EQUITY MGMT	AUTOLIV INC.	DISBRNSG
7/28/2006	1/24/2012	2211574	PROGRESS VISTA MAR	AVON PRODUCTS INC. (2011)	DISBRNSG
7/28/2006	1/24/2012	2211575	PROGRESS REDWOOD INVESTMENT	AVON PRODUCTS INC. (2011)	DISBRNSG
6/16/2015	11/7/2017	2218632	RHUMBLINE EQUITY	BABCOCK & WILCOX ENTERPRISES, INC (2017)	FILED
6/16/2015	11/7/2017	2219055	LOMBARDIA CAPITAL PARTNERS	BABCOCK & WILCOX ENTERPRISES, INC (2017)	FILED
6/16/2015	11/7/2017	2255942	NORTHERN TRUST ASSET MGMT	BABCOCK & WILCOX ENTERPRISES, INC (2017)	FILED
6/16/2015	11/7/2017	2292745	JACOBS LEVY EQUITY MGMT	BABCOCK & WILCOX ENTERPRISES, INC (2017)	FILED
4/14/2016	4/21/2017	2219055	LOMBARDIA CAPITAL PARTNERS	BANC OF CALIFORNIA INC.	FILED
4/14/2016	4/21/2017	2241059	FIDUCIARY MANAGEMENT ASSOCIATES	BANC OF CALIFORNIA INC.	FILED
4/14/2016	4/21/2017	2255942	NORTHERN TRUST ASSET MGMT	BANC OF CALIFORNIA INC.	FILED
8/7/2014	10/25/2016	SUR53	PROGRESS GLOVISTA INVESTMENTS	BANCO BRADESCO S. A.	FILED
2/26/2009	1/14/2011	SUR15	WELLINGTON MGMT	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	SUR17	PIMCO TIPS	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	SUR21	PIMCO TOTAL RETURN	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	SUR27	PIMCO STOCKSPUS	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	SUR40	CALAMOS INVESTMENTS	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	2211573	PROGRESS LYNMAR CAPITAL	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	2211578	PROGRESS PALISADES INVESTMENT	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	2218531	ZENNA FINANCIAL	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	2292745	JACOBS LEVY EQUITY MGMT	BANK OF AMERICA CORP (2011)	DISBRNSG
2/26/2009	1/14/2011	2292746	PIEDMONT INVESTMENT ADVISORS	BANK OF AMERICA CORP (2011)	DISBRNSG
5/6/2009	1/30/2014	SUR39	ABERDEEN ASSET MGMT	BARRICK GOLD CORPORATION (2013)	DISBRNSG
7/21/2005	10/5/2005	2255942	NORTHERN TRUST ASSET MGMT	BEI TECHNOLOGY INC	FILED
9/24/2014	2/26/2016	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	BHP BILLITON LTD	FILED
9/24/2014	2/26/2016	SUR63	Progress-Glovista Investments EAFE	BHP BILLITON LTD	FILED
10/23/2000	8/11/2006	2219052	NCM CAPITAL	BISYS GROUP	DISBRNSG
3/4/2016	4/12/2016	2218632	RHUMBLINE EQUITY	BLOUNT INTERNATIONAL INC. (D. OR.)	FILED
3/4/2016	4/12/2016	2255942	NORTHERN TRUST ASSET MGMT	BLOUNT INTERNATIONAL INC. (D. OR.)	FILED
6/27/2000	8/3/2001	2255942	NORTHERN TRUST ASSET MGMT	CABLETRON SYS INC	FILED
6/27/2000	8/3/2001	2271463	NTGI RESTRUCTURING ACCT	CABLETRON SYS INC	FILED
6/19/2005	4/24/2006	SUR14	CAPITAL GUARDIAN	CABLEVISION NY GROUP COM	FILED
6/19/2005	4/24/2006	2255942	NORTHERN TRUST ASSET MGMT	CABLEVISION NY GROUP COM	FILED
9/6/2005	12/16/2005	2255942	NORTHERN TRUST ASSET MGMT	CAPITAL AUTOMOTIVE REIT	FILED
2/26/2010	2/8/2013	SUR15	WELLINGTON MGMT	CEDC SECURITIES ACTION	DISBRNSG
2/26/2010	2/8/2013	2218632	RHUMBLINE EQUITY	CEDC SECURITIES ACTION	DISBRNSG
2/26/2010	2/8/2013	2255942	NORTHERN TRUST ASSET MGMT	CEDC SECURITIES ACTION	DISBRNSG
7/9/2001	4/4/2002	SUR08	DRESDNER RCM GLOBAL	CHECK POINT SOFTWARE TECHNOLOGIES, LTD.	DISBRNSG
12/30/2005	9/4/2018	SUR03	MARTIN CURRIE	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR15	WELLINGTON MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR14	CAPITAL GUARDIAN	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR61	PROGRESS TRANSITION	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR37	PROGRESS HERNDON CAPITAL MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR38	TRANSITION	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR28	HERNDON CAPITAL MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR63	Progress-Glovista Investments EAFE	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR40	CALAMOS INVESTMENTS	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR50	PROGRESS SKY INVESTMENT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR53	PROGRESS GLOVISTA INVESTMENTS	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR32	PROGRESS JOHN HSU CAPITAL MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	SUR33	PROGRESS BROWN CAPITAL MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2211573	PROGRESS LYNMAR CAPITAL	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2211789	TRANSITION	CITI SPONSORED ADRS (CITIBANK)	FILED

*FILED - Class Action has been filed with Claims Administrator

DISBRNSG - Class Action has begun Disbursing payments

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Schedule K

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SCHEDULE OF PENDING CLASS ACTIONS

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Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
12/30/2005	9/4/2018	2214779	PROGRESS MARTIN INVESTMENTS	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2226432	PROGRESS APEX	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2240979	NTGA EMERGING ADVISORS	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2255942	NORTHERN TRUST ASSET MGMT	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2261521	PROGRESS HIGH POINTE	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2261965	PROGRESS HOLLAND CAPITAL	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2261966	PROGRESS TRANSITION DOMESTIC	CITI SPONSORED ADRS (CITIBANK)	FILED
12/30/2005	9/4/2018	2292747	T ROWE PRICE	CITI SPONSORED ADRS (CITIBANK)	FILED
2/23/2007	7/17/2008	SUR15	WELLINGTON MGMT	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	SUR14	CAPITAL GUARDIAN	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2211789	TRANSITION	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2218531	ZENNA FINANCIAL	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2218632	RHUMBLINE EQUITY	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2255942	NORTHERN TRUST ASSET MGMT	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2292746	PIEDMONT INVESTMENT ADVISORS	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
2/23/2007	7/17/2008	2292747	T ROWE PRICE	CITIGROUP INC (VOL FA CAP) SEC FAIR FND	FILED
4/26/2000	8/31/2001	2255942	NORTHERN TRUST ASSET MGMT	CLARENT CORP	FILED
4/26/2000	8/31/2001	2271463	NTGI RESTRUCTURING ACCT	CLARENT CORP	FILED
7/10/2017	9/29/2017	2255942	NORTHERN TRUST ASSET MGMT	CLUBCORP HOLDINGS INC.	FILED
2/28/2011	10/11/2018	SUR15	WELLINGTON MGMT	COBALT INTERNATIONAL ENERGY INC.	FILED
2/28/2011	10/11/2018	SUR38	TRANSITION	COBALT INTERNATIONAL ENERGY INC.	FILED
2/28/2011	10/11/2018	2255942	NORTHERN TRUST ASSET MGMT	COBALT INTERNATIONAL ENERGY INC.	FILED
5/6/2013	7/23/2014	2218632	RHUMBLINE EQUITY	COMMVault SYSTEMS	FILED
5/6/2013	7/23/2014	2255942	NORTHERN TRUST ASSET MGMT	COMMVault SYSTEMS	FILED
5/6/2013	7/23/2014	2261966	PROGRESS TRANSITION DOMESTIC	COMMVault SYSTEMS	FILED
4/2/2013	3/10/2015	2206616	PROGRESS STONERIDGE	CONN'S, INC.	FILED
4/2/2013	3/10/2015	2255942	NORTHERN TRUST ASSET MGMT	CONN'S, INC.	FILED
7/24/2014	10/21/2015	2218632	RHUMBLINE EQUITY	CONSTANT CONTACT INC (D. MASS.)	NOTIFIED
7/24/2014	10/21/2015	2244620	CASTLEARK MGMT	CONSTANT CONTACT INC (D. MASS.)	NOTIFIED
7/24/2014	10/21/2015	2255942	NORTHERN TRUST ASSET MGMT	CONSTANT CONTACT INC (D. MASS.)	NOTIFIED
7/24/2014	10/21/2015	2292745	JACOBS LEVY EQUITY MGMT	CONSTANT CONTACT INC (D. MASS.)	NOTIFIED
3/16/1999	5/20/2003	2255942	NORTHERN TRUST ASSET MGMT	CRYO CELL INTL INC	FILED
2/24/1999	3/1/1999	2255942	NORTHERN TRUST ASSET MGMT	DAOU SYSTEMS INC.	FILED
2/14/2001	2/14/2001	2255942	NORTHERN TRUST ASSET MGMT	DDI CORP	DISBRNSG
2/21/2012	8/20/2012	SUR40	CALAMOS INVESTMENTS	DELL INC. (2014)	FILED
2/21/2012	8/20/2012	2218632	RHUMBLINE EQUITY	DELL INC. (2014)	FILED
2/21/2012	8/20/2012	2255942	NORTHERN TRUST ASSET MGMT	DELL INC. (2014)	FILED
2/21/2012	8/20/2012	2273358	PROGRESS BOWLING	DELL INC. (2014)	FILED
2/21/2012	8/20/2012	2292747	T ROWE PRICE	DELL INC. (2014)	FILED
8/25/2011	4/25/2016	SUR38	TRANSITION	DEVRY EDUCATION GROUP, INC.	FILED
8/25/2011	4/25/2016	2218632	RHUMBLINE EQUITY	DEVRY EDUCATION GROUP, INC.	FILED
8/25/2011	4/25/2016	2219052	NCM CAPITAL	DEVRY EDUCATION GROUP, INC.	FILED
8/25/2011	4/25/2016	2244620	CASTLEARK MGMT	DEVRY EDUCATION GROUP, INC.	FILED
8/25/2011	4/25/2016	2255942	NORTHERN TRUST ASSET MGMT	DEVRY EDUCATION GROUP, INC.	FILED
10/4/2010	5/8/2012	2218632	RHUMBLINE EQUITY	DIAMOND FOODS, INC	DISBRNSG
10/4/2010	5/8/2012	2255942	NORTHERN TRUST ASSET MGMT	DIAMOND FOODS, INC	DISBRNSG
2/25/2010	2/9/2012	2211581	PROGRESS AH LISANTI	DIAMOND FOODS, INC. (SEC FAIR FUND)	FILED
2/25/2010	2/9/2012	2218632	RHUMBLINE EQUITY	DIAMOND FOODS, INC. (SEC FAIR FUND)	FILED
2/25/2010	2/9/2012	2219051	HOLLAND CAPITAL MGMT	DIAMOND FOODS, INC. (SEC FAIR FUND)	FILED
2/25/2010	2/9/2012	2255942	NORTHERN TRUST ASSET MGMT	DIAMOND FOODS, INC. (SEC FAIR FUND)	FILED
6/29/2016	9/14/2016	2255942	NORTHERN TRUST ASSET MGMT	DIAMOND RESORTS INTERNATIONAL INC.(2016)	FILED
2/26/2016	1/31/2017	2218632	RHUMBLINE EQUITY	DIPLOMAT PHARMACY INC. (2) (2016)	FILED
2/26/2016	1/31/2017	2255942	NORTHERN TRUST ASSET MGMT	DIPLOMAT PHARMACY INC. (2) (2016)	FILED
6/11/2013	11/29/2013	2218632	RHUMBLINE EQUITY	DOLE FOOD COMPANY, INC. (2013) (DELAWARE	FILED
6/11/2013	11/29/2013	2255942	NORTHERN TRUST ASSET MGMT	DOLE FOOD COMPANY, INC. (2013) (DELAWARE	FILED
8/9/1999	8/13/2003	2255942	NORTHERN TRUST ASSET MGMT	DVI	DISBRNSG
1/8/2016	9/19/2016	2241059	FIDUCIARY MANAGEMENT ASSOCIATES	EMERGENT BIOSOLUTIONS INC.	FILED

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DISBRNSG - Class Action has begun Disbursing payments

NOTIFIED - TNT has been notified of this Class Action and is preparing to file on SURS behalf

Schedule K

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF PENDING CLASS ACTIONS

As of December 31, 2019

Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
6/4/2015	11/13/2018	SUR61	PROGRESS TRANSITION	ENDO INTERNATIONAL PLC (2017)	FILED
6/4/2015	11/13/2018	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	ENDO INTERNATIONAL PLC (2017)	FILED
6/4/2015	11/13/2018	2211576	PROGRESS HERNDON CAPITAL MGMT	ENDO INTERNATIONAL PLC (2017)	FILED
6/4/2015	11/13/2018	2218632	RHUMBLINE EQUITY	ENDO INTERNATIONAL PLC (2017)	FILED
6/4/2015	11/13/2018	2234108	MATARIN CAP SMALL CORE	ENDO INTERNATIONAL PLC (2017)	FILED
6/4/2015	11/13/2018	2255942	NORTHERN TRUST ASSET MGMT	ENDO INTERNATIONAL PLC (2017)	FILED
11/29/2012	9/6/2017	SUR61	PROGRESS TRANSITION	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	2211576	PROGRESS HERNDON CAPITAL MGMT	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	2218632	RHUMBLINE EQUITY	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	2219052	NCM CAPITAL	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	2255942	NORTHERN TRUST ASSET MGMT	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
11/29/2012	9/6/2017	2292745	JACOBS LEVY EQUITY MGMT	ENDO INTERNATIONAL PLC (2017) (E.D. PA.)	FILED
10/24/2013	3/15/2016	2255942	NORTHERN TRUST ASSET MGMT	ENDURANCE INT'L GROUP HOLDINGS INC.	FILED
6/30/1999	12/6/2002	2255942	NORTHERN TRUST ASSET MGMT	ENTROPIN, INC.	FILED
9/11/2013	7/8/2015	2206616	PROGRESS STONERIDGE	EXTREME NETWORKS, INC. (2015)	FILED
9/11/2013	7/8/2015	2244620	CASTLEARK MGMT	EXTREME NETWORKS, INC. (2015)	FILED
9/11/2013	7/8/2015	2292745	JACOBS LEVY EQUITY MGMT	EXTREME NETWORKS, INC. (2015)	FILED
1/27/2014	10/20/2015	2218632	RHUMBLINE EQUITY	EZ CORP. INC (2015)	FILED
1/27/2014	10/20/2015	2255942	NORTHERN TRUST ASSET MGMT	EZ CORP. INC (2015)	FILED
5/17/2012	2/23/2018	SUR15	WELLINGTON MGMT	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	SUR40	CALAMOS INVESTMENTS	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	SUR41	T. ROWE PRICE	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	2218632	RHUMBLINE EQUITY	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	2255942	NORTHERN TRUST ASSET MGMT	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	2292746	PIEDMONT INVESTMENT ADVISORS	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
5/17/2012	2/23/2018	2292747	T ROWE PRICE	FACEBOOK INC(2012)(INSTL&RETAIL INV CL)	FILED
1/13/1999	5/23/2006	SUR15	WELLINGTON MGMT	FANNIE MAE	FILED
1/13/1999	5/23/2006	SUR14	CAPITAL GUARDIAN	FANNIE MAE	FILED
1/13/1999	5/23/2006	2255942	NORTHERN TRUST ASSET MGMT	FANNIE MAE	FILED
1/13/1999	5/23/2006	2268236	FAYEZ SAROFIM	FANNIE MAE	FILED
4/17/2000	6/6/2003	SUR14	CAPITAL GUARDIAN	FEDERAL HOME LOAN MTG CORP (SEC)(FREDDIE	DISBRNSG
5/13/2015	6/27/2017	2206616	PROGRESS STONERIDGE	FENIX PARTS, INC.	NOTIFIED
3/29/2013	12/31/2014	2218632	RHUMBLINE EQUITY	FIFTH ST FIN CORP/FITH ST SR FLTG RATE	FILED
3/29/2013	12/31/2014	2219055	LOMBARDIA CAPITAL PARTNERS	FIFTH ST FIN CORP/FITH ST SR FLTG RATE	FILED
2/4/2016	7/31/2017	SUR15	WELLINGTON MGMT	FLEETCOR TECHNOLOGIES INC.	NOTIFIED
2/4/2016	7/31/2017	2218632	RHUMBLINE EQUITY	FLEETCOR TECHNOLOGIES INC.	NOTIFIED
2/4/2016	7/31/2017	2255942	NORTHERN TRUST ASSET MGMT	FLEETCOR TECHNOLOGIES INC.	NOTIFIED
2/4/2016	7/31/2017	2292747	T ROWE PRICE	FLEETCOR TECHNOLOGIES INC.	NOTIFIED
2/6/2013	11/8/2016	2218632	RHUMBLINE EQUITY	FLOWERS FOODS, INC.	FILED
2/6/2013	11/8/2016	2219052	NCM CAPITAL	FLOWERS FOODS, INC.	FILED
2/6/2013	11/8/2016	2244620	CASTLEARK MGMT	FLOWERS FOODS, INC.	FILED
2/6/2013	11/8/2016	2255942	NORTHERN TRUST ASSET MGMT	FLOWERS FOODS, INC.	FILED
2/6/2013	11/8/2016	2292745	JACOBS LEVY EQUITY MGMT	FLOWERS FOODS, INC.	FILED
7/27/1999	10/1/2002	2271463	NTGI RESTRUCTURING ACCT	FOCAL COMMUNICATIONS	DISBRNSG
3/16/2010	3/2/2018	SUR37	PROGRESS HERNDON CAPITAL MGMT	FOCUS MEDIA HOLDING LIMITED (SEC)	FILED
10/18/2016	11/7/2017	2255942	NORTHERN TRUST ASSET MGMT	FORTERRA INC.	NOTIFIED
3/31/2015	5/17/2018	SUR15	WELLINGTON MGMT	FRESHPET INC.	OPEN
3/31/2015	5/17/2018	2218632	RHUMBLINE EQUITY	FRESHPET INC.	OPEN
3/31/2015	5/17/2018	2255942	NORTHERN TRUST ASSET MGMT	FRESHPET INC.	OPEN
11/30/2000	10/29/2001	2255942	NORTHERN TRUST ASSET MGMT	G & L REALTY CORP	FILED
11/4/2013	5/18/2015	2218632	RHUMBLINE EQUITY	GT ADVANCED TECHNOLOGIES INC (UNDER&IND)	FILED
11/4/2013	5/18/2015	2255942	NORTHERN TRUST ASSET MGMT	GT ADVANCED TECHNOLOGIES INC (UNDER&IND)	FILED
5/18/1998	5/28/2002	SUR15	WELLINGTON MGMT	HALLIBURTON COMPANY	FILED
5/18/1998	5/28/2002	2202283	SMITH BARNEY CAPITAL MGMT	HALLIBURTON COMPANY	FILED
5/18/1998	5/28/2002	2255942	NORTHERN TRUST ASSET MGMT	HALLIBURTON COMPANY	FILED
5/18/1998	5/28/2002	2271463	NTGI RESTRUCTURING ACCT	HALLIBURTON COMPANY	FILED

*FILED - Class Action has been filed with Claims Administrator

DISBRNSG - Class Action has begun Disbursing payments

NOTIFIED - TNT has been notified of this Class Action and is preparing to file on SURS behalf

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SCHEDULE OF PENDING CLASS ACTIONS

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Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
6/9/2014	4/8/2016	2218632	RHUMBLINE EQUITY	HEARTWARE INTN'L INC (2016) (S.D.N.Y.)	FILED
6/9/2014	4/8/2016	2244620	CASTLEARK MGMT	HEARTWARE INTN'L INC (2016) (S.D.N.Y.)	FILED
6/9/2014	4/8/2016	2255942	NORTHERN TRUST ASSET MGMT	HEARTWARE INTN'L INC (2016) (S.D.N.Y.)	FILED
2/21/2012	2/3/2016	2218632	RHUMBLINE EQUITY	ICONIX BRAND GROUP, INC.	FILED
2/21/2012	2/3/2016	2219055	LOMBARDIA CAPITAL PARTNERS	ICONIX BRAND GROUP, INC.	FILED
2/21/2012	2/3/2016	2244620	CASTLEARK MGMT	ICONIX BRAND GROUP, INC.	FILED
2/21/2012	2/3/2016	2255942	NORTHERN TRUST ASSET MGMT	ICONIX BRAND GROUP, INC.	FILED
7/25/2016	1/9/2017	SUR41	T. ROWE PRICE	ILLUMINA, INC. (2016) (S.D. CAL.)	NOTIFIED
7/25/2016	1/9/2017	2218632	RHUMBLINE EQUITY	ILLUMINA, INC. (2016) (S.D. CAL.)	NOTIFIED
7/25/2016	1/9/2017	2255942	NORTHERN TRUST ASSET MGMT	ILLUMINA, INC. (2016) (S.D. CAL.)	NOTIFIED
5/17/1999	7/6/2001	2271463	NTGI RESTRUCTURING ACCT	IMMUNE RESPONSE CORP	DISBRNSG
2/11/2015	3/11/2019	2218632	RHUMBLINE EQUITY	INOVALON HOLDINGS, INC	FILED
2/11/2015	3/11/2019	2255942	NORTHERN TRUST ASSET MGMT	INOVALON HOLDINGS, INC	FILED
5/6/2013	7/29/2015	2218632	RHUMBLINE EQUITY	INSULET CORPORATION	FILED
5/6/2013	7/29/2015	2244620	CASTLEARK MGMT	INSULET CORPORATION	FILED
5/6/2013	7/29/2015	2255942	NORTHERN TRUST ASSET MGMT	INSULET CORPORATION	FILED
2/3/2012	10/17/2013	2206608	PROGRESS VISION -SL	INTUITIVE SURGICAL, INC (2013)	FILED
2/3/2012	10/17/2013	2211569	PROGRESS FORTALEZA	INTUITIVE SURGICAL, INC (2013)	FILED
2/3/2012	10/17/2013	2218632	RHUMBLINE EQUITY	INTUITIVE SURGICAL, INC (2013)	FILED
2/3/2012	10/17/2013	2255942	NORTHERN TRUST ASSET MGMT	INTUITIVE SURGICAL, INC (2013)	FILED
2/3/2012	10/17/2013	2292747	T ROWE PRICE	INTUITIVE SURGICAL, INC (2013)	FILED
2/25/2011	10/30/2015	2255942	NORTHERN TRUST ASSET MGMT	INVESTMENT TECHNOLOGY GROUP, INC.	FILED
2/25/2011	10/30/2015	2292745	JACOBS LEVY EQUITY MGMT	INVESTMENT TECHNOLOGY GROUP, INC.	FILED
3/15/2004	3/21/2005	2255942	NORTHERN TRUST ASSET MGMT	INVISION TECHNOLOGIES INC	FILED
10/13/2008	11/26/2010	SUR14	CAPITAL GUARDIAN	JOHNSON & JOHNSON (2010)	DISBRNSG
10/13/2008	11/26/2010	SUR38	TRANSITION	JOHNSON & JOHNSON (2010)	DISBRNSG
10/13/2008	11/26/2010	SUR40	CALAMOS INVESTMENTS	JOHNSON & JOHNSON (2010)	DISBRNSG
10/13/2008	11/26/2010	2248908	BGI TRANSITION ACCOUNT	JOHNSON & JOHNSON (2010)	DISBRNSG
4/11/2012	5/18/2012	SUR41	T. ROWE PRICE	JPMORGAN CHASE & CO (SEC FAIR FUND)	DISBRNSG
4/11/2012	5/18/2012	2292747	T ROWE PRICE	JPMORGAN CHASE & CO (SEC FAIR FUND)	DISBRNSG
11/19/2010	7/18/2018	SUR03	MARTIN CURRIE	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR15	WELLINGTON MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR61	PROGRESS TRANSITION	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR37	PROGRESS HERNDON CAPITAL MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR38	TRANSITION	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR18	PYRAMIS GLOBAL ADVISORS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR19	MONDRIAN INVESTMENTS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR28	HERNDON CAPITAL MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR63	Progress-Glovista Investments EAFE	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR65	Progress-ARGA MSCI	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR69	SOLSTEIN CAPITAL, LLC	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR39	ABERDEEN ASSET MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR40	CALAMOS INVESTMENTS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR42	STRATEGIC GLOBAL ADVISORS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR50	PROGRESS SKY INVESTMENT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR53	PROGRESS GLOVISTA INVESTMENTS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR32	PROGRESS JOHN HSU CAPITAL MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR33	PROGRESS BROWN CAPITAL MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR34	PROGRESS STRATEGIC GLOBAL ADVISORS	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR46	PROGRESS CHESWOLD LANE	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2211574	PROGRESS VISTA MAR	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2211575	PROGRESS REDWOOD INVESTMENT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2211789	TRANSITION	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2218632	RHUMBLINE EQUITY	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2219054	PROFIT INVESTMENT MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2226432	PROGRESS APEX	JPMORGAN CHASE BANK N.A. ADR FX	FILED

*FILED - Class Action has been filed with Claims Administrator

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As of December 31, 2019

Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
11/19/2010	7/18/2018	2255942	NORTHERN TRUST ASSET MGMT	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	2292747	T ROWE PRICE	JPMORGAN CHASE BANK N.A. ADR FX	FILED
11/19/2010	7/18/2018	SUR43	PROGRESS ATIVO	JPMORGAN CHASE BANK N.A. ADR FX	FILED
2/1/2011	2/7/2012	SUR15	WELLINGTON MGMT	KEURIG GREEN MOUNTAIN, INC. (2011)	FILED
2/1/2011	2/7/2012	2218632	RHUMBLINE EQUITY	KEURIG GREEN MOUNTAIN, INC. (2011)	FILED
2/1/2011	2/7/2012	2255942	NORTHERN TRUST ASSET MGMT	KEURIG GREEN MOUNTAIN, INC. (2011)	FILED
10/24/2017	5/21/2018	2211789	TRANSITION	KRATON CORPORATION	NOTIFIED
10/24/2017	5/21/2018	2218632	RHUMBLINE EQUITY	KRATON CORPORATION	NOTIFIED
10/24/2017	5/21/2018	2244620	CASTLEARK MGMT	KRATON CORPORATION	NOTIFIED
10/24/2017	5/21/2018	2255942	NORTHERN TRUST ASSET MGMT	KRATON CORPORATION	NOTIFIED
6/5/2006	7/25/2006	2219054	PROFIT INVESTMENT MGMT	LASERSCOPE	FILED
6/11/2007	10/28/2008	2211789	TRANSITION	LEHMAN BROTHERS EQTY/DEBT - EY SETTLE II	DISBRNSG
6/11/2007	10/28/2008	2240979	NTGA EMERGING ADVISORS	LEHMAN BROTHERS EQTY/DEBT - EY SETTLE II	DISBRNSG
6/11/2007	10/28/2008	2248908	BGI TRANSITION ACCOUNT	LEHMAN BROTHERS EQTY/DEBT - EY SETTLE II	DISBRNSG
6/11/2007	10/28/2008	2211789	TRANSITION	LEHMAN BROTHERS EQTY/DEBT - EY SETTLEMEN	DISBRNSG
6/11/2007	10/28/2008	2218531	ZENNA FINANCIAL	LEHMAN BROTHERS EQTY/DEBT - EY SETTLEMEN	DISBRNSG
6/11/2007	10/28/2008	2218632	RHUMBLINE EQUITY	LEHMAN BROTHERS EQTY/DEBT - EY SETTLEMEN	DISBRNSG
6/11/2007	10/28/2008	2248908	BGI TRANSITION ACCOUNT	LEHMAN BROTHERS EQTY/DEBT - EY SETTLEMEN	DISBRNSG
6/11/2007	10/28/2008	2255942	NORTHERN TRUST ASSET MGMT	LEHMAN BROTHERS EQTY/DEBT - EY SETTLEMEN	DISBRNSG
6/11/2007	4/20/2012	2248908	BGI TRANSITION ACCOUNT	LEHMAN BROTHERS HLDGS INC (D & O SETTLEM	DISBRNSG
6/11/2007	4/20/2012	2255942	NORTHERN TRUST ASSET MGMT	LEHMAN BROTHERS HLDGS INC (D & O SETTLEM	DISBRNSG
6/11/2007	4/20/2012	SUR15	WELLINGTON MGMT	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	SUR14	CAPITAL GUARDIAN	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2211576	PROGRESS HERNDON CAPITAL MGMT	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2211578	PROGRESS PALISADES INVESTMENT	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2211789	TRANSITION	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2218531	ZENNA FINANCIAL	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2218632	RHUMBLINE EQUITY	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2240979	NTGA EMERGING ADVISORS	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2242457	BLACKROCK ENHANCED	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2248908	BGI TRANSITION ACCOUNT	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2255942	NORTHERN TRUST ASSET MGMT	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2292746	PIEDMONT INVESTMENT ADVISORS	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
6/11/2007	4/20/2012	2292747	T ROWE PRICE	LEHMAN BROTHERS HLDGS UNDERWRITERS	DISBRNSG
1/2/2007	11/14/2013	SUR12	WESTERN ASSET MGMT	LEHMAN BROTHERS HOLDINGS, INC (EQTY/DBT	FILED
1/2/2007	11/14/2013	SUR13	BLACKROCK CORE PLUS	LEHMAN BROTHERS HOLDINGS, INC (EQTY/DBT	FILED
1/2/2007	11/14/2013	SUR38	TRANSITION	LEHMAN BROTHERS HOLDINGS, INC (EQTY/DBT	FILED
1/2/2007	11/14/2013	2242457	BLACKROCK ENHANCED	LEHMAN BROTHERS HOLDINGS, INC (EQTY/DBT	FILED
6/11/2007	4/20/2012	SUR12	WESTERN ASSET MGMT	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR15	WELLINGTON MGMT	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR14	CAPITAL GUARDIAN	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR13	BLACKROCK CORE PLUS	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR21	PIMCO TOTAL RETURN	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR25	SMITH GRAHAM & CO	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR26	TAPLIN CANIDA & HABACHT	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	SUR35	PROGRESS NEW CENTURY ADVISORS	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	2218531	ZENNA FINANCIAL	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	2218632	RHUMBLINE EQUITY	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/11/2007	4/20/2012	2292747	T ROWE PRICE	LEHMAN BROTHERS HOLDINGS, INC.	DISBRNSG
6/24/1997	3/3/1999	2255942	NORTHERN TRUST ASSET MGMT	LIFE FINANCIAL CORP	FILED
9/26/2013	7/7/2017	2255942	NORTHERN TRUST ASSET MGMT	LION BIOTECHNOLOGIES INC.(N/K/A IOVANCE)	FILED
1/31/2012	8/5/2014	2206616	PROGRESS STONERIDGE	LIQUIDITY SERVICES, INC.	FILED
1/31/2012	8/5/2014	2211581	PROGRESS AH LISANTI	LIQUIDITY SERVICES, INC.	FILED
1/31/2012	8/5/2014	2241059	FIDUCIARY MANAGEMENT ASSOCIATES	LIQUIDITY SERVICES, INC.	FILED
5/16/1995	6/14/1995	2202282	ROSENBERG INST EQUITY	MAGMA COPPER COMPANY	FILED
1/23/2004	7/25/2017	SUR39	ABERDEEN ASSET MGMT	MANULIFE FINANCIAL CORP. (CAD) (QUEBEC)	DISBRNSG
1/23/2004	7/25/2017	SUR42	STRATEGIC GLOBAL ADVISORS	MANULIFE FINANCIAL CORP. (CAD) (QUEBEC)	DISBRNSG

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1/23/2004	7/25/2017	SUR34	PROGRESS STRATEGIC GLOBAL ADVISORS	MANULIFE FINANCIAL CORP. (CAD) (QUEBEC)	DISBRNSG
7/31/2013	8/1/2016	2206616	PROGRESS STONERIDGE	MARRONE BIO INNOVATIONS, INC. (F/K/A MAR	FILED
3/2/2015	5/29/2015	2206616	PROGRESS STONERIDGE	MAVENIR SYSTEMS, INC.	DISBRNSG
2/26/2012	3/19/2013	2255942	NORTHERN TRUST ASSET MGMT	MAXWELL TECHNOLOGIES INC SEC FAIRFUND	DISBRNSG
2/28/2011	3/31/2011	2218632	RHUMBLINE EQUITY	MCAFEE INC. (CALIFORNIA SUPERIOR COURT)	FILED
2/28/2011	3/31/2011	2255942	NORTHERN TRUST ASSET MGMT	MCAFEE INC. (CALIFORNIA SUPERIOR COURT)	FILED
2/28/2011	3/31/2011	2292747	T ROWE PRICE	MCAFEE INC. (CALIFORNIA SUPERIOR COURT)	FILED
9/7/2010	9/26/2011	SUR15	WELLINGTON MGMT	MEDTRONIC, INC (2013)	FILED
9/7/2010	9/26/2011	2255942	NORTHERN TRUST ASSET MGMT	MEDTRONIC, INC (2013)	FILED
9/7/2010	9/26/2011	2292745	JACOBS LEVY EQUITY MGMT	MEDTRONIC, INC (2013)	FILED
3/23/2016	1/19/2018	2218632	RHUMBLINE EQUITY	MERIDIAN BIOSCIENCE, INC.	FILED
3/23/2016	1/19/2018	2255942	NORTHERN TRUST ASSET MGMT	MERIDIAN BIOSCIENCE, INC.	FILED
2/17/2012	1/13/2014	2218632	RHUMBLINE EQUITY	MOLYCORP INC	DISBRNSG
2/17/2012	1/13/2014	2255942	NORTHERN TRUST ASSET MGMT	MOLYCORP INC	DISBRNSG
4/11/2011	4/11/2011	2218632	RHUMBLINE EQUITY	MONEYGRAM INTERNATIONAL	FILED
4/11/2011	4/11/2011	2255942	NORTHERN TRUST ASSET MGMT	MONEYGRAM INTERNATIONAL	FILED
4/27/2004	8/1/2006	2255942	NORTHERN TRUST ASSET MGMT	NIAGARA CORP	FILED
11/24/1999	7/19/2002	2271463	NTGI RESTRUCTURING ACCT	NICOR INC	DISBRNSG
5/12/2000	7/18/2002	2271463	NTGI RESTRUCTURING ACCT	NICOR SEC FAIR FUND	DISBRNSG
1/3/2006	5/9/2017	SUR23	PAYDEN & RYGEL	NOVASTAR MORTGAGE FUNDING TRUSTS	FILED
5/3/2011	4/17/2014	SUR38	TRANSITION	NU SKIN ENTERPRISES, INC	DISBRNSG
5/3/2011	4/17/2014	2261966	PROGRESS TRANSITION DOMESTIC	NU SKIN ENTERPRISES, INC	DISBRNSG
5/3/2011	4/17/2014	2273358	PROGRESS BOWLING	NU SKIN ENTERPRISES, INC	DISBRNSG
7/16/2015	6/22/2018	2255942	NORTHERN TRUST ASSET MGMT	OOMA, INC.	FILED
11/3/1999	9/6/2007	2200518	UBS GLOBAL VENTURE PORTFOLIO	OPTICAL COATING LABORATORY, INC.	DISBRNSG
12/16/2014	11/7/2016	2218632	RHUMBLINE EQUITY	ORBITAL ATK INC.	FILED
12/16/2014	11/7/2016	2255942	NORTHERN TRUST ASSET MGMT	ORBITAL ATK INC.	FILED
5/9/2014	2/12/2016	2255942	NORTHERN TRUST ASSET MGMT	OSIRIS THERAPEUTICS, INC. (D. MD.)	FILED
2/17/2010	7/29/2014	SUR38	TRANSITION	PENN WEST PETROLEUM LTD	DISBRNSG
2/17/2010	7/29/2014	SUR39	ABERDEEN ASSET MGMT	PENN WEST PETROLEUM LTD	DISBRNSG
7/22/1999	5/3/2002	2202263	NEW AMSTERDAM ACTIVE	PEREGRINE SYSTEMS INC	FILED
7/22/1999	5/3/2002	2202838	GENESIS CAPITAL	PEREGRINE SYSTEMS INC	FILED
7/22/1999	5/3/2002	2255942	NORTHERN TRUST ASSET MGMT	PEREGRINE SYSTEMS INC	FILED
7/22/1999	5/3/2002	2271463	NTGI RESTRUCTURING ACCT	PEREGRINE SYSTEMS INC	FILED
1/21/2010	10/26/2015	SUR13	BLACKROCK CORE PLUS	PETROLEO BRAS S.A. (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR38	TRANSITION	PETROLEO BRAS S.A. (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR21	PIMCO TOTAL RETURN	PETROLEO BRAS S.A. (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR52	PIMCO UNCONSTRAINED BOND	PETROLEO BRAS S.A. (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR59	PROGRESS LM CAPITAL GROUP EMD	PETROLEO BRAS S.A. (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR15	WELLINGTON MGMT	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR38	TRANSITION	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR17	PIMCO TIPS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR21	PIMCO TOTAL RETURN	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR25	SMITH GRAHAM & CO	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR26	TAPLIN CANIDA & HABACHT	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR27	PIMCO STOCKSPUS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR28	HERNDON CAPITAL MGMT	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR52	PIMCO UNCONSTRAINED BOND	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR58	PROGRESS GIA PARTNERS EMD	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR59	PROGRESS LM CAPITAL GROUP EMD	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR48	NEUBERGER BERMAN	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR39	ABERDEEN ASSET MGMT	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR41	T. ROWE PRICE	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR53	PROGRESS GLOVISTA INVESTMENTS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	SUR35	PROGRESS NEW CENTURY ADVISORS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
1/21/2010	10/26/2015	2207289	TCW METWEST	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG

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Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
1/21/2010	10/26/2015	2211585	PIEDMONT INVESTMENT ADVISORS	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	DISBRNSG
5/22/2013	11/30/2017	2255942	NORTHERN TRUST ASSET MGMT	PLY GEM HOLDINGS, INC. (2014)	DISBRNSG
1/18/2017	8/8/2018	2218632	RHUMBLINE EQUITY	PPG INDUSTRIES, INC.	FILED
1/18/2017	8/8/2018	2255942	NORTHERN TRUST ASSET MGMT	PPG INDUSTRIES, INC.	FILED
8/24/2004	12/21/2004	2255942	NORTHERN TRUST ASSET MGMT	PRICE LEGACY CORP	FILED
10/14/2015	7/20/2018	SUR41	T. ROWE PRICE	PROTHENA CORPORATION PLC (S.D.N.Y.)	FILED
10/14/2015	7/20/2018	2255942	NORTHERN TRUST ASSET MGMT	PROTHENA CORPORATION PLC (S.D.N.Y.)	FILED
11/5/2014	5/20/2016	2244620	CASTLEARK MGMT	PTC THERAPEUTICS INC.	FILED
11/5/2014	5/20/2016	2255942	NORTHERN TRUST ASSET MGMT	PTC THERAPEUTICS INC.	FILED
7/21/2014	6/11/2015	2218632	RHUMBLINE EQUITY	PUMA BIOTECHNOLOGY, INC. 2015	FILED
7/21/2014	6/11/2015	2255942	NORTHERN TRUST ASSET MGMT	PUMA BIOTECHNOLOGY, INC. 2015	FILED
3/23/2000	5/21/2001	2271463	NTGI RESTRUCTURING ACCT	PURCHASEPRO.COM INC	DISBRNSG
5/25/2011	10/23/2012	2211581	PROGRESS AH LISANTI	QUALITY SYSTEMS, INC. (2013)	DISBRNSG
5/25/2011	10/23/2012	2218632	RHUMBLINE EQUITY	QUALITY SYSTEMS, INC. (2013)	DISBRNSG
5/25/2011	10/23/2012	2219048	BDHS CAPITAL	QUALITY SYSTEMS, INC. (2013)	DISBRNSG
5/25/2011	10/23/2012	2255942	NORTHERN TRUST ASSET MGMT	QUALITY SYSTEMS, INC. (2013)	DISBRNSG
4/15/2016	5/9/2018	2255942	NORTHERN TRUST ASSET MGMT	QUANTUM CORPORATION	FILED
12/19/2003	7/31/2006	2255942	NORTHERN TRUST ASSET MGMT	QUOVADX INC 74913K106 12/19/03 - 7/31/	FILED
12/19/2003	7/31/2006	2271463	NTGI RESTRUCTURING ACCT	QUOVADX INC 74913K106 12/19/03 - 7/31/	FILED
11/28/2003	3/26/2007	2255942	NORTHERN TRUST ASSET MGMT	QUOVADX, INC.	FILED
8/4/2015	12/6/2016	2255942	NORTHERN TRUST ASSET MGMT	QUORATE RETAIL, INC.	FILED
5/24/1999	5/4/2001	2271463	NTGI RESTRUCTURING ACCT	RAZORFISH INC	DISBRNSG
2/11/2014	7/12/2017	2206616	PROGRESS STONERIDGE	RCS CAPITAL CORPORATION	FILED
2/11/2014	7/12/2017	2255942	NORTHERN TRUST ASSET MGMT	RCS CAPITAL CORPORATION	FILED
1/30/2015	1/6/2017	2219055	LOMBARDIA CAPITAL PARTNERS	RENT-A-CENTER, INC. (2016)	FILED
3/14/2016	7/5/2017	2255942	NORTHERN TRUST ASSET MGMT	RENTECH, INC. (2017) (C.D. CAL.)	FILED
1/28/2016	7/13/2018	2255942	NORTHERN TRUST ASSET MGMT	RENTRAK CORP (2016)	FILED
3/25/2015	9/6/2016	SUR61	PROGRESS TRANSITION	RH (F/K/A REST. HARDWARE HLDNG) 2017	FILED
3/25/2015	9/6/2016	2211789	TRANSITION	RH (F/K/A REST. HARDWARE HLDNG) 2017	FILED
3/25/2015	9/6/2016	2219051	HOLLAND CAPITAL MGMT	RH (F/K/A REST. HARDWARE HLDNG) 2017	FILED
3/25/2015	9/6/2016	2255942	NORTHERN TRUST ASSET MGMT	RH (F/K/A REST. HARDWARE HLDNG) 2017	FILED
3/25/2015	9/6/2016	2261965	PROGRESS HOLLAND CAPITAL	RH (F/K/A REST. HARDWARE HLDNG) 2017	FILED
3/13/2013	7/24/2019	2206616	PROGRESS STONERIDGE	ROADRUNNER TRANSPORTATION SYSTEMS, INC.	FILED
3/13/2013	7/24/2019	2211789	TRANSITION	ROADRUNNER TRANSPORTATION SYSTEMS, INC.	FILED
3/13/2013	7/24/2019	2255942	NORTHERN TRUST ASSET MGMT	ROADRUNNER TRANSPORTATION SYSTEMS, INC.	FILED
3/13/2013	7/24/2019	2261966	PROGRESS TRANSITION DOMESTIC	ROADRUNNER TRANSPORTATION SYSTEMS, INC.	FILED
5/6/2010	1/30/2011	2255942	NORTHERN TRUST ASSET MGMT	ROCK OF AGES CORPORATION	FILED
11/7/2017	9/24/2018	2218632	RHUMBLINE EQUITY	ROCKWELL MEDICAL INC. (2018)	FILED
11/7/2017	9/24/2018	2255942	NORTHERN TRUST ASSET MGMT	ROCKWELL MEDICAL INC. (2018)	FILED
4/7/1999	6/15/2004	2232420	TEMPORARY ACCOUNT	ROYAL DUTCH PETRO SHELL TRANS	DISBRNSG
4/7/1999	6/15/2004	2232420	TEMPORARY ACCOUNT	ROYAL DUTCH SHELL SEC	DISBRNSG
3/24/2011	8/31/2011	2218632	RHUMBLINE EQUITY	SAIC, INC. (S. D. N. Y.)	FILED
3/24/2011	8/31/2011	2255942	NORTHERN TRUST ASSET MGMT	SAIC, INC. (S. D. N. Y.)	FILED
10/15/2014	7/14/2015	2218632	RHUMBLINE EQUITY	SANDISK CORP (N/K/A SANDISK LLC)(2015)	FILED
2/2/2015	6/13/2016	SUR15	WELLINGTON MGMT	SANTANDER CONSUMER USA HLDGS INC (2016)	FILED
2/2/2015	6/13/2016	2292745	JACOBS LEVY EQUITY MGMT	SANTANDER CONSUMER USA HLDGS INC (2016)	FILED
8/7/2012	6/11/2013	2218632	RHUMBLINE EQUITY	SPECTRUM PHARMACEUTICALS, INC. (2013)	DISBRNSG
8/7/2012	6/11/2013	2255942	NORTHERN TRUST ASSET MGMT	SPECTRUM PHARMACEUTICALS, INC. (2013)	DISBRNSG
3/3/2015	3/29/2019	2218632	RHUMBLINE EQUITY	SPROUTS FARMERS MARKET INC (AZ SUP CRT)	FILED
3/3/2015	3/29/2019	2255942	NORTHERN TRUST ASSET MGMT	SPROUTS FARMERS MARKET INC (AZ SUP CRT)	FILED
2/24/2012	4/18/2017	SUR15	WELLINGTON MGMT	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	SUR40	CALAMOS INVESTMENTS	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	SUR41	T. ROWE PRICE	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	2218632	RHUMBLINE EQUITY	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	2255942	NORTHERN TRUST ASSET MGMT	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	2292745	JACOBS LEVY EQUITY MGMT	STATE STREET CORPORATION (2017)	FILED
2/24/2012	4/18/2017	2292747	T ROWE PRICE	STATE STREET CORPORATION (2017)	FILED

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2/6/2013	5/22/2018	SUR19	MONDRIAN INVESTMENTS	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2211569	PROGRESS FORTALEZA	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2218632	RHUMBLINE EQUITY	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2219051	HOLLAND CAPITAL MGMT	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2255942	NORTHERN TRUST ASSET MGMT	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2261966	PROGRESS TRANSITION DOMESTIC	STERICYCLE, INC	FILED
2/6/2013	5/22/2018	2292747	T ROWE PRICE	STERICYCLE, INC	FILED
8/17/2015	7/22/2016	2218632	RHUMBLINE EQUITY	SUNEDISON INC. (CERTIFIED CLASS)	FILED
8/17/2015	7/22/2016	2255942	NORTHERN TRUST ASSET MGMT	SUNEDISON INC. (CERTIFIED CLASS)	FILED
1/20/2004	10/1/2004	2255942	NORTHERN TRUST ASSET MGMT	SUPPORT SOFT INC	FILED
4/11/2006	5/19/2006	2202263	NEW AMSTERDAM ACTIVE	SYBRON DENTAL SPECIALTIES	FILED
4/11/2006	5/19/2006	2219049	CHANNING CAPITAL MGMT	SYBRON DENTAL SPECIALTIES	FILED
12/17/2002	7/10/2006	2219055	LOMBARDIA CAPITAL PARTNERS	TAKE-TWO INTERACTIVE SOFTWARE (2006)	DISBRNSG
11/17/2006	8/20/2007	2207291	ARIEL CAPITAL MGMT	TD BANKNORTH, INC.	FILED
11/17/2006	8/20/2007	2255942	NORTHERN TRUST ASSET MGMT	TD BANKNORTH, INC.	FILED
5/17/2001	7/1/2002	2202838	GENESIS CAPITAL	TELLIUM INC	DISBRNSG
2/19/2008	5/12/2009	2218531	ZENNA FINANCIAL	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2218632	RHUMBLINE EQUITY	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2219051	HOLLAND CAPITAL MGMT	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2255942	NORTHERN TRUST ASSET MGMT	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2292745	JACOBS LEVY EQUITY MGMT	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2292746	PIEDMONT INVESTMENT ADVISORS	TEREX CORPORATION (D CONN.)	FILED
2/19/2008	5/12/2009	2292747	T ROWE PRICE	TEREX CORPORATION (D CONN.)	FILED
7/30/2015	12/15/2017	2255942	NORTHERN TRUST ASSET MGMT	TERRAFORM GLOBAL INC	FILED
4/8/2009	7/20/2009	2255942	NORTHERN TRUST ASSET MGMT	TEXTRON INC/HARMAN INT'L (SEC FAIR FUND)	FILED
5/5/2015	1/6/2020	2206616	PROGRESS STONERIDGE	THE ADVISORY BOARD COMPANY (D.D.C.)	NOTIFIED
5/5/2015	1/6/2020	2218632	RHUMBLINE EQUITY	THE ADVISORY BOARD COMPANY (D.D.C.)	NOTIFIED
5/5/2015	1/6/2020	2244620	CASTLEARK MGMT	THE ADVISORY BOARD COMPANY (D.D.C.)	NOTIFIED
5/5/2015	1/6/2020	2255942	NORTHERN TRUST ASSET MGMT	THE ADVISORY BOARD COMPANY (D.D.C.)	NOTIFIED
12/31/1996	1/17/2019	SUR08	DRESDNER RCM GLOBAL	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR09	OECHSLE INTERNATIONAL ADVISORS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR02	AMERICAN EXPRESS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR03	MARTIN CURRIE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR15	WELLINGTON MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR14	CAPITAL GUARDIAN	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR37	PROGRESS HERNDON CAPITAL MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR38	TRANSITION	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR57	PROGRESS LOMBARDIA CAPITAL PARTNERS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR18	PYRAMIS GLOBAL ADVISORS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR19	MONDRIAN INVESTMENTS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR28	HERNDON CAPITAL MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR63	Progress-Glovista Investments EAFE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR65	Progress-ARGA MSCI	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR39	ABERDEEN ASSET MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR40	CALAMOS INVESTMENTS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR41	T. ROWE PRICE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR42	STRATEGIC GLOBAL ADVISORS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR50	PROGRESS SKY INVESTMENT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR53	PROGRESS GLOVISTA INVESTMENTS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR32	PROGRESS JOHN HSU CAPITAL MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR33	PROGRESS BROWN CAPITAL MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR34	PROGRESS STRATEGIC GLOBAL ADVISORS	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	SUR46	PROGRESS CHESWOLD LANE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2211574	PROGRESS VISTA MAR	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2211575	PROGRESS REDWOOD INVESTMENT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2211578	PROGRESS PALISADES INVESTMENT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2218632	RHUMBLINE EQUITY	THE BANK OF NEW YORK MELLON ADR FX	FILED

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12/31/1996	1/17/2019	2219051	HOLLAND CAPITAL MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2219052	NCM CAPITAL	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2219053	PARADIGM ASSET MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2226432	PROGRESS APEX	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2255942	NORTHERN TRUST ASSET MGMT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2261521	PROGRESS HIGH POINTE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2261965	PROGRESS HOLLAND CAPITAL	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2268230	CASH ACCOUNT	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2268238	PIMCO	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2273358	PROGRESS BOWLING	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/31/1996	1/17/2019	2292747	T ROWE PRICE	THE BANK OF NEW YORK MELLON ADR FX	FILED
12/2/2015	6/7/2017	SUR18	PYRAMIS GLOBAL ADVISORS	THE TORONTO-DOMINION BANK	FILED
5/10/2011	11/4/2014	2292745	JACOBS LEVY EQUITY MGMT	THORATEC CORPORATION (2014)	FILED
1/21/1999	11/19/2002	2271463	NTGI RESTRUCTURING ACCT	TRANSACTION SYSTEMS ARCHITECTS	DISBRNSG
2/15/2012	7/24/2015	2206603	PROGRESS AFFINITY DOMESTIC EQUITY	TRINITY INDUSTRIES INC.	NOTIFIED
2/15/2012	7/24/2015	2214779	PROGRESS MARTIN INVESTMENTS	TRINITY INDUSTRIES INC.	NOTIFIED
2/15/2012	7/24/2015	2218632	RHUMBLINE EQUITY	TRINITY INDUSTRIES INC.	NOTIFIED
2/15/2012	7/24/2015	2255942	NORTHERN TRUST ASSET MGMT	TRINITY INDUSTRIES INC.	NOTIFIED
2/15/2017	2/2/2018	2218632	RHUMBLINE EQUITY	TRUECAR, INC. (2018)	FILED
2/15/2017	2/2/2018	2244620	CASTLEARK MGMT	TRUECAR, INC. (2018)	FILED
2/15/2017	2/2/2018	2255942	NORTHERN TRUST ASSET MGMT	TRUECAR, INC. (2018)	FILED
5/8/2013	5/17/2018	2218632	RHUMBLINE EQUITY	UBIQUITI NETWORKS, INC. (2018)	NOTIFIED
5/8/2013	5/17/2018	2255942	NORTHERN TRUST ASSET MGMT	UBIQUITI NETWORKS, INC. (2018)	NOTIFIED
3/7/2011	3/8/2016	2255942	NORTHERN TRUST ASSET MGMT	UNITED DEVELOPMENT FUNDING IV	FILED
1/3/2013	9/2/2016	SUR18	PYRAMIS GLOBAL ADVISORS	VALEANT PHARMACEUTICALS INTL INC. (2015)	NOTIFIED
1/3/2013	9/2/2016	2211789	TRANSITION	VALEANT PHARMACEUTICALS INTL INC. (2015)	NOTIFIED
1/3/2013	9/2/2016	2214781	PROGRESS HIGH POINTE	VALEANT PHARMACEUTICALS INTL INC. (2015)	NOTIFIED
1/3/2013	9/2/2016	2261966	PROGRESS TRANSITION DOMESTIC	VALEANT PHARMACEUTICALS INTL INC. (2015)	NOTIFIED
1/3/2013	9/2/2016	2273359	PROGRESS HAHN	VALEANT PHARMACEUTICALS INTL INC. (2015)	NOTIFIED
1/24/2013	8/7/2015	2206616	PROGRESS STONERIDGE	VIRTUS INVESTMENT PARTNERS	DISBRNSG
1/24/2013	8/7/2015	2218632	RHUMBLINE EQUITY	VIRTUS INVESTMENT PARTNERS	DISBRNSG
1/24/2013	8/7/2015	2255942	NORTHERN TRUST ASSET MGMT	VIRTUS INVESTMENT PARTNERS	DISBRNSG
12/8/2000	11/8/2002	SUR08	DRESDNER RCM GLOBAL	VIVENDI UNIVERSAL, S.A.	DISBRNSG
12/8/2000	11/8/2002	SUR09	OECHSLE INTERNATIONAL ADVISORS	VIVENDI UNIVERSAL, S.A.	DISBRNSG
12/8/2000	11/8/2002	SUR02	AMERICAN EXPRESS	VIVENDI UNIVERSAL, S.A.	DISBRNSG
12/8/2000	11/8/2002	SUR03	MARTIN CURRIE	VIVENDI UNIVERSAL, S.A.	DISBRNSG
12/8/2000	11/8/2002	SUR14	CAPITAL GUARDIAN	VIVENDI UNIVERSAL, S.A.	DISBRNSG
12/7/2011	7/20/2012	SUR19	MONDRIAN INVESTMENTS	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	SUR40	CALAMOS INVESTMENTS	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2211569	PROGRESS FORTALEZA	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2218632	RHUMBLINE EQUITY	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2255942	NORTHERN TRUST ASSET MGMT	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2262574	PROGRESS GRAHAM AND DODD	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2273358	PROGRESS BOWLING	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2292745	JACOBS LEVY EQUITY MGMT	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2292746	PIEDMONT INVESTMENT ADVISORS	WAL-MART STORES INC.	FILED
12/7/2011	7/20/2012	2292747	T ROWE PRICE	WAL-MART STORES INC.	FILED
1/3/2000	1/15/2015	SUR27	PIMCO STOCKSPLUS	WAMU -TIA SETTLEMENT (2012)	DISBRNSG
2/25/2014	12/19/2016	SUR15	WELLINGTON MGMT	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	SUR38	TRANSITION	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	SUR19	MONDRIAN INVESTMENTS	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	SUR40	CALAMOS INVESTMENTS	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2206603	PROGRESS AFFINITY DOMESTIC EQUITY	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2218632	RHUMBLINE EQUITY	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2228214	PROGRESS BOWLING	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2255942	NORTHERN TRUST ASSET MGMT	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2292745	JACOBS LEVY EQUITY MGMT	WELLS FARGO & COMPANY (2016)	FILED

*FILED - Class Action has been filed with Claims Administrator

DISBRNSG - Class Action has begun Disbursing payments

NOTIFIED - TNT has been notified of this Class Action and is preparing to file on SURS behalf

Schedule K

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF PENDING CLASS ACTIONS

As of December 31, 2019

Class Period Start Date	Class Period End Date	Account Number	Account Name	Class Action Name	TNT Status*
2/25/2014	12/19/2016	2292746	PIEDMONT INVESTMENT ADVISORS	WELLS FARGO & COMPANY (2016)	FILED
2/25/2014	12/19/2016	2292747	T ROWE PRICE	WELLS FARGO & COMPANY (2016)	FILED
6/17/2014	3/11/2019	SUR21	PIMCO TOTAL RETURN	WELLS FARGO BANK (2016) (RES MORTG BCKD)	FILED
6/17/2014	3/11/2019	SUR27	PIMCO STOCKSPLUS	WELLS FARGO BANK (2016) (RES MORTG BCKD)	FILED
6/17/2014	3/11/2019	SUR68	METROPOLITAN WEST ASSET	WELLS FARGO BANK (2016) (RES MORTG BCKD)	FILED
6/17/2014	3/11/2019	SUR48	NEUBERGER BERMAN	WELLS FARGO BANK (2016) (RES MORTG BCKD)	FILED
1/17/2008	1/28/2011	2255942	NORTHERN TRUST ASSET MGMT	WILMINGTON TRUST CORP (D. DEL.)	DISBRSNG
1/17/2008	1/28/2011	2292747	T ROWE PRICE	WILMINGTON TRUST CORP (D. DEL.)	DISBRSNG
1/11/2008	7/31/2008	SUR15	WELLINGTON MGMT	WYETH	DISBRSNG
1/11/2008	7/31/2008	SUR14	CAPITAL GUARDIAN	WYETH	DISBRSNG
1/11/2008	7/31/2008	2202262	RASARA STRATEGIES EQUITY	WYETH	DISBRSNG
1/11/2008	7/31/2008	2211578	PROGRESS PALISADES INVESTMENT	WYETH	DISBRSNG
1/11/2008	7/31/2008	2218531	ZENNA FINANCIAL	WYETH	DISBRSNG
1/11/2008	7/31/2008	2218632	RHUMBLINE EQUITY	WYETH	DISBRSNG
1/11/2008	7/31/2008	2255942	NORTHERN TRUST ASSET MGMT	WYETH	DISBRSNG
1/11/2008	7/31/2008	2292746	PIEDMONT INVESTMENT ADVISORS	WYETH	DISBRSNG
1/11/2008	7/31/2008	2292747	T ROWE PRICE	WYETH	DISBRSNG
4/29/2013	3/14/2017	2211789	TRANSITION	YAHOO! INC. (2017)	FILED
4/29/2013	3/14/2017	2218632	RHUMBLINE EQUITY	YAHOO! INC. (2017)	FILED
4/29/2013	3/14/2017	2292747	T ROWE PRICE	YAHOO! INC. (2017)	FILED

*FILED - Class Action has been filed with Claims Administrator

DISBRSNG - Class Action has begun Disbursing payments

NOTIFIED - TNT has been notified of this Class Action and is preparing to file on SURS behalf

Schedule K

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF CLASS ACTION PROCEEDS RECEIVED

Fiscal Year 2020

Date of Distribution	Class Action Name	Account Name	Amount
7/12/2019	COMPUTER SCIENCES CORP (SEC FAIR FUND)	RHUMBLINE EQUITY	\$ 5,461
7/12/2019	COMPUTER SCIENCES CORP (SEC FAIR FUND)	NORTHERN TRUST ASSET MGMT	26811.59
7/12/2019	COMPUTER SCIENCES CORP (SEC FAIR FUND)	JACOBS LEVY EQUITY MGMT	3436.93
7/12/2019	COMPUTER SCIENCES CORP (SEC FAIR FUND)	T ROWE PRICE	13355.13
7/18/2019	AMGEN INC. (2007)	ZENNA FINANCIAL	110.62
7/18/2019	AMGEN INC. (2007)	RHUMBLINE EQUITY	12227.38
7/18/2019	AMGEN INC. (2007)	NORTHERN TRUST ASSET MGMT	711.72
7/19/2019	SYMBOL TECHNOLOGIES INC (2005)	ZENNA FINANCIAL	48.64
7/23/2019	FITBIT, INC. (N.D.CAL.)	RHUMBLINE EQUITY	738.79
7/23/2019	FITBIT, INC. (N.D.CAL.)	NORTHERN TRUST ASSET MGMT	1117.06
7/29/2019	CLOVIS ONCOLOGY, INC. (2015)	RHUMBLINE EQUITY	3154.06
7/29/2019	CLOVIS ONCOLOGY, INC. (2015)	NORTHERN TRUST ASSET MGMT	2909.33
8/12/2019	GALENA BIOPHARMA STOCKHOLDER SETTLEMENT	NORTHERN TRUST ASSET MGMT	16.05
8/13/2019	THE BANCORP INC	JACOBS LEVY EQUITY MGMT	1163.12
8/16/2019	OPUS BANK	LOMBARDIA CAPITAL PARTNERS	35015.47
8/16/2019	OPUS BANK	FIDUCIARY MANAGEMENT ASSOCIATES	25876.89
8/16/2019	OPUS BANK	NORTHERN TRUST ASSET MGMT	1441.19
8/22/2019	GALENA BIOPHARMA ONE DAY HOLDINGS	NORTHERN TRUST ASSET MGMT	24.32
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	BLACKROCK EQUITY PLUS	554.76
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	WESTERN ASSET MGMT	24.72
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	BLACKROCK CORE PLUS	126.5
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	TRANSITION	1246.39
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	PIMCO STOCKSPUS	399.66
8/27/2019	COUNTRYWIDE FNCL CORP (2010) MBS SETTLE	BLACKROCK ENHANCED	193.33
9/3/2019	GENERAL MOTORS COMPANY	PROGRESS FORTALEZA	6832.11
9/3/2019	GENERAL MOTORS COMPANY	RHUMBLINE EQUITY	797.4
9/3/2019	GENERAL MOTORS COMPANY	NORTHERN TRUST ASSET MGMT	25888.34
9/3/2019	GENERAL MOTORS COMPANY	PIEDMONT INVESTMENT ADVISORS	1693.48
9/3/2019	GENERAL MOTORS COMPANY	T ROWE PRICE	4303.41
9/4/2019	STRAIGHT PATH COMMUNICATIONS INC (2015)	NORTHERN TRUST ASSET MGMT	33.27
9/4/2019	TOWER GROUP INTL LTD. (2013)(TOWER DEFEN	PROGRESS STONERIDGE	44.76
9/4/2019	TOWER GROUP INTL LTD. (2013)(TOWER DEFEN	LOMBARDIA CAPITAL PARTNERS	272.04
9/4/2019	TOWER GROUP INTL LTD. (2013)(TOWER DEFEN	NORTHERN TRUST ASSET MGMT	35.1
9/5/2019	MAXWELL TECHNOLOGIES INC SEC FAIRFUND	PROGRESS AH LISANTI	366.62
9/10/2019	UTI WORLDWIDE INC.	NORTHERN TRUST ASSET MGMT	1973.17
9/11/2019	CVS CAREMARK CORP	ABERDEEN ASSET MGMT	40.87
9/18/2019	VITESSE SEMICONDUCTOR CORP.	NORTHERN TRUST ASSET MGMT	88.48
9/20/2019	NUVASIVE, INC	RHUMBLINE EQUITY	289.18
9/20/2019	NUVASIVE, INC	NORTHERN TRUST ASSET MGMT	1850.73
9/20/2019	LENDINGCLUB CORPORATION	NORTHERN TRUST ASSET MGMT	8345.05
9/24/2019	AAC HOLDINGS INC	CASTLEARK MGMT	44133.87
9/24/2019	THE MILLS CORP.	RREEF REIT	285.18
9/24/2019	COMPUTER SCIENCES CORP (SEC FAIR FUND)	NORTHERN TRUST ASSET MGMT	57.1
9/26/2019	IMPERVA INC	NORTHERN TRUST ASSET MGMT	1766.42
10/3/2019	MISHCON DE REYA LLP	SURS	74591
10/24/2019	JPMORGAN CHASE & CO (SEC FAIR FUND)	RHUMBLINE EQUITY	32.37
10/24/2019	JPMORGAN CHASE & CO (SEC FAIR FUND)	PROGRESS GRAHAM AND DODD	38.98
10/25/2019	INDYMAC MORTGAGE PASS-THROUGH (INDV&UND)	TCW METWEST	15.36
10/25/2019	WACHOVIA PREFERRED SECURITIES & BNDS/NTS	PIMCO TOTAL RETURN	349.89
10/28/2019	NORTEL NETWORKS CORP II	WELLINGTON MGMT	2.39
10/29/2019	CENDANT CORP	SURS	82.76
10/29/2019	DELL SEC FAIR FUND	SURS	108.67
10/29/2019	DELL, INC.	WELLINGTON MGMT	172.67
10/29/2019	DELL, INC.	ZENNA FINANCIAL	59.58
11/6/2019	PETROLEO BRASILEIRO SA (PETROBRAS 2014)	PROGRESS GIA PARTNERS	327399.67
11/26/2019	Amer. Intl. Grp. (2004) (PWC)	NORTHERN TRUST ASSET MGMT	26.25
11/26/2019	Amer. Intl. Grp. (2004) (PWC)	NTGI RESTRUCTURING ACCT	44.5
11/27/2019	TWITTER, INC. (CALIF. SUPERIOR COURT)	RHUMBLINE EQUITY	445.09
11/27/2019	TWITTER, INC. (CALIF. SUPERIOR COURT)	NORTHERN TRUST ASSET MGMT	20.36
11/27/2019	AMERICAN INTL GRP (04) (STARR DEFENDENTS	NORTHERN TRUST ASSET MGMT	25.85
11/27/2019	AMERICAN INTL GRP (04) (STARR DEFENDENTS	NTGI RESTRUCTURING ACCT	45.02
12/2/2019	Amer. Intl. Grp. (2004) (COMPANY)	WELLINGTON MGMT	68.04
12/2/2019	Amer. Intl. Grp. (2004) (COMPANY)	CAPITAL GUARDIAN	29.91

STATE UNIVERSITIES RETIREMENT SYSTEM

SCHEDULE OF CLASS ACTION PROCEEDS RECEIVED

Fiscal Year 2020

Date of Distribution	Class Action Name	Account Name	Amount
12/2/2019	Amer. Intl. Grp. (2004) (COMPANY)	NORTHERN TRUST ASSET MGMT	164.83
12/2/2019	Amer. Intl. Grp. (2004) (COMPANY)	NTGI RESTRUCTURING ACCT	302.97
12/4/2019	WILLBROS GROUP, INC. (2014)	NORTHERN TRUST ASSET MGMT	929.02
12/4/2019	WILMINGTON TRUST CORP (D. DEL.)	RHUMBLINE EQUITY	4767.4
12/6/2019	J.C. PENNEY COMPANY INC	NORTHERN TRUST ASSET MGMT	5223.52
12/11/2019	CGM	SURS	2315.81
12/11/2019	GOPRO, INC. (2016) (CALI SUP COURT)	RHUMBLINE EQUITY	51.92
12/11/2019	GOPRO, INC. (2016) (CALI SUP COURT)	NORTHERN TRUST ASSET MGMT	762.23
12/16/2019	CENDANT CORP	SURS	160.56
12/16/2019	CENDANT CORP	SURS	391.71
12/17/2019	QUALITY SYSTEMS, INC. (2013)	PROGRESS VISTA MAR	3660.72
12/20/2019	METROLOGIC INSTRUMENTS INC (ELLIOTT)	PARADIGM ASSET MGMT	2792.68
12/20/2019	METROLOGIC INSTRUMENTS INC (ELLIOTT)	NORTHERN TRUST ASSET MGMT	1105.44
12/27/2019	MAXWELL TECHNOLOGIES INC SEC FAIRFUND	PROGRESS AH LISANTI	665.98
			<u>\$ 662,113.98</u>
Fiscal Year 2020	Class Action Proceeds Received	Fiscal Year to Date	662,113.98
Fiscal Year 2019	Class Action Proceeds Received		6,246,285.14
Fiscal Year 2018	Class Action Proceeds Received		1,099,379.70
Fiscal Year 2017	Class Action Proceeds Received		2,195,614.91
Fiscal Year 2016	Class Action Proceeds Received		2,378,326.97
Fiscal Year 2015	Class Action Proceeds Received		11,860,487.44
Fiscal Year 2014	Class Action Proceeds Received		18,813,194.15
Fiscal Year 2013	Class Action Proceeds Received		1,508,587.91
Fiscal Year 2012	Class Action Proceeds Received		492,901.53
Fiscal Year 2011	Class Action Proceeds Received		1,222,349.65
Fiscal Year 2010	Class Action Proceeds Received		1,537,784.27
Fiscal Year 2009	Class Action Proceeds Received		1,811,070.49
Fiscal Year 2008	Class Action Proceeds Received		7,653,043.59
Fiscal Year 2007	Class Action Proceeds Received		1,105,820.60
Fiscal Year 2006	Class Action Proceeds Received		4,533,991.96
Fiscal Year 2005	Class Action Proceeds Received		361,362.83
Fiscal Year 2004	Class Action Proceeds Received		292,349.50
Cumulative	Class Action Proceeds Received		<u>\$ 63,774,664.62</u>