

The Ithaka Group
PORTFOLIO APPRAISAL
North Carolina Retirement System
North Carolina Department of State Treasurer
January 31, 2016

Quantity	Security	Unit Cost	Total Cost	Price	Market Value	Pct. Assets	Cur. Yield
CASH AND EQUIVALENTS							
	BNY MELLON MMF		130,521.35		130,521.35	0.7	0.0
	Dividend Accruals		1,605.50		1,605.50	0.0	0.0
			132,126.85		132,126.85	0.7	0.0
COMMON STOCK							
8,248.0000	ARM Holdings plc	45.29	373,562.37	43.08	355,323.84	1.9	0.6
4,160.0000	Adobe Systems Inc.	86.65	360,464.00	89.13	370,780.80	2.0	0.0
2,672.0000	Alexion Pharmaceuticals	123.80	330,801.33	145.93	389,924.96	2.1	0.0
976.0000	Alphabet Inc. Class C	615.21	600,446.83	742.95	725,119.20	4.0	0.0
1,372.0000	Amazon.com Inc.	304.75	418,112.61	587.00	805,364.00	4.4	0.0
1,570.0000	Baidu, Inc. ADS	228.07	358,069.74	163.27	256,333.90	1.4	0.0
1,568.0000	BioMarin Pharmaceutical	124.55	195,297.07	74.02	116,063.36	0.6	0.0
1,285.0000	Biogen Inc.	335.05	430,537.96	273.06	350,882.10	1.9	0.0
6,677.0000	Celgene Corp.	78.01	520,847.32	100.32	669,836.64	3.7	0.0
1,780.0000	Domino's Pizza, Inc.	109.44	194,799.64	113.93	202,795.40	1.1	1.1
14,523.0000	Facebook, Inc. cl A	40.03	581,310.82	112.21	1,629,625.83	8.9	0.0
3,081.0000	Illumina Inc	189.39	583,499.36	157.95	486,643.95	2.7	0.0
4,668.0000	LinkedIn Corp cl A	207.13	966,887.77	197.91	923,843.88	5.0	0.0
8,450.0000	Mastercard Inc.	54.55	460,972.85	89.03	752,303.50	4.1	0.9
3,550.0000	Middleby Corporation	84.56	300,184.17	90.36	320,778.00	1.8	0.0
1,199.0000	Netflix Inc	116.81	140,050.64	91.84	110,116.16	0.6	0.0
4,632.0000	Nike Inc cl B	64.53	298,922.11	62.01	287,230.32	1.6	1.0
400.0000	O'Reilly Automotive, Inc.	252.62	101,046.48	260.90	104,360.00	0.6	0.0
2,866.0000	Palo Alto Networks, Inc.	162.76	466,468.28	149.49	428,438.34	2.3	0.0
7,978.0000	PayPal Holdings, Inc.	38.44	306,649.59	36.14	288,324.92	1.6	0.0
1,721.0000	Regeneron Pharmaceuticals	287.18	494,240.48	420.09	722,974.89	3.9	0.0
1,916.0000	Restoration Hardware Hldgs Inc	99.71	191,042.64	61.62	118,063.92	0.6	0.0
13,833.0000	Salesforce.com Inc	47.74	660,439.62	68.06	941,473.98	5.1	0.0
6,155.0000	Splunk Inc.	43.57	268,164.60	46.29	284,914.95	1.6	0.0
21,672.0000	Starbucks Corporation	32.42	702,654.96	60.77	1,317,007.44	7.2	1.3
6,256.0000	TJX Companies Inc.	68.08	425,929.12	71.24	445,677.44	2.4	1.2
755.0000	The Priceline Group Inc.	707.95	534,502.25	1,064.97	804,052.35	4.4	0.0
2,145.0000	Transdigm Group, Inc.	123.35	264,580.94	224.73	482,045.85	2.6	0.0
3,730.0000	TripAdvisor, Inc.	89.91	335,382.84	66.76	249,014.80	1.4	0.0
4,387.0000	Ulta Salon, Cosmetics	161.68	709,280.51	181.17	794,792.79	4.3	0.0
8,529.0000	Under Armour, Inc. Cl A	29.42	250,957.10	85.43	728,632.47	4.0	0.0
13,678.0000	VISA Inc.	47.81	653,877.71	74.49	1,018,874.22	5.6	0.8
4,799.0000	Walt Disney Company	91.54	439,316.01	95.82	459,840.18	2.5	1.5
4,040.0000	Workday, Inc.	76.31	308,307.33	63.01	254,560.40	1.4	0.0
			14,227,607.05		18,196,014.78	99.3	0.3
TOTAL PORTFOLIO			14,359,733.90		18,328,141.63	100.0	0.3

The Ithaka Group
PERFORMANCE HISTORY
NET OF FEES
North Carolina Retirement System
From 05-02-13 to 01-31-16

Time Period		Percent Return			Cumulative TWR		
		Per Period			Basis = 100		
		Portfolio	Russell 1000 Growth	Russell 3000 Growth	Portfolio	Russell 1000 Growth	Russell 3000 Growth
05-02-2013 to 05-02-2013					100.00	100.00	100.00
05-02-2013	to 05-31-2013	1.82	1.69	2.00	101.82	101.69	102.00
05-31-2013	to 06-30-2013	-2.21	-1.88	-1.78	99.57	99.78	100.18
06-30-2013	to 07-31-2013	7.69	5.30	5.48	107.22	105.07	105.68
07-31-2013	to 08-31-2013	1.83	-1.71	-1.73	109.19	103.27	103.84
08-31-2013	to 09-30-2013	8.56	4.46	4.66	118.53	107.87	108.68
09-30-2013	to 10-31-2013	2.80	4.42	4.21	121.85	112.64	113.26
10-31-2013	to 11-30-2013	3.28	2.82	2.92	125.84	115.82	116.57
11-30-2013	to 12-31-2013	2.75	2.86	2.79	129.30	119.13	119.82
12-31-2013	to 01-31-2014	-1.21	-2.85	-2.76	127.74	115.73	116.51
01-31-2014	to 02-28-2014	6.81	5.15	5.12	136.44	121.69	122.48
02-28-2014	to 03-31-2014	-7.00	-1.01	-1.13	126.88	120.46	121.10
03-31-2014	to 04-30-2014	-5.12	0.00	-0.41	120.39	120.47	120.61
04-30-2014	to 05-31-2014	2.87	3.12	2.95	123.85	124.22	124.16
05-31-2014	to 06-30-2014	2.94	1.95	2.27	127.49	126.64	126.98
06-30-2014	to 07-31-2014	0.37	-1.53	-1.89	127.96	124.70	124.58
07-31-2014	to 08-31-2014	5.38	4.58	4.66	134.85	130.42	130.39
08-31-2014	to 09-30-2014	-2.44	-1.45	-1.75	131.56	128.53	128.11
09-30-2014	to 10-31-2014	3.03	2.64	2.90	135.55	131.91	131.82
10-31-2014	to 11-30-2014	1.56	3.17	2.98	137.66	136.09	135.74
11-30-2014	to 12-31-2014	-1.83	-1.04	-0.75	135.14	134.67	134.73
12-31-2014	to 01-31-2015	0.72	-1.53	-1.59	136.12	132.61	132.59
01-31-2015	to 02-28-2015	8.35	6.67	6.71	147.49	141.45	141.48
02-28-2015	to 03-31-2015	-1.45	-1.14	-0.92	145.36	139.84	140.18
03-31-2015	to 04-30-2015	-0.32	0.50	0.23	144.89	140.54	140.51
04-30-2015	to 05-31-2015	0.28	1.41	1.58	145.30	142.52	142.73
05-31-2015	to 06-30-2015	1.24	-1.76	-1.52	147.10	140.01	140.56
06-30-2015	to 07-31-2015	5.21	3.39	3.14	154.76	144.76	144.98
07-31-2015	to 08-31-2015	-6.87	-6.07	-6.19	144.14	135.97	136.00
08-31-2015	to 09-30-2015	-2.66	-2.47	-2.78	140.30	132.60	132.22
09-30-2015	to 10-31-2015	9.66	8.61	8.39	153.86	144.02	143.31
10-31-2015	to 11-30-2015	-0.14	0.28	0.53	153.65	144.43	144.07
11-30-2015	to 12-31-2015	-1.13	-1.47	-1.72	151.91	142.31	141.59
12-31-2015	to 01-31-2016	-8.77	-5.58	-5.97	138.59	134.36	133.13
Date to Date							
05-02-2013	to 01-31-2016	38.59	34.36	33.13			
Annualized		12.60	11.34	10.96			

The Ithaka Group
PERFORMANCE HISTORY
GROSS OF FEES
North Carolina Retirement System
From 05-02-13 to 01-31-16

Time Period		Percent Return			Cumulative TWR		
		Per Period			Basis = 100		
		Portfolio	Russell 1000 Growth	Russell 3000 Growth	Portfolio	Russell 1000 Growth	Russell 3000 Growth
05-02-2013 to 05-02-2013					100.00	100.00	100.00
05-02-2013	to 05-31-2013	1.82	1.69	2.00	101.82	101.69	102.00
05-31-2013	to 06-30-2013	-2.21	-1.88	-1.78	99.57	99.78	100.18
06-30-2013	to 07-31-2013	7.78	5.30	5.48	107.32	105.07	105.68
07-31-2013	to 08-31-2013	1.83	-1.71	-1.73	109.28	103.27	103.84
08-31-2013	to 09-30-2013	8.60	4.46	4.66	118.68	107.87	108.68
09-30-2013	to 10-31-2013	2.94	4.42	4.21	122.17	112.64	113.26
10-31-2013	to 11-30-2013	3.28	2.82	2.92	126.18	115.82	116.57
11-30-2013	to 12-31-2013	2.75	2.86	2.79	129.64	119.13	119.82
12-31-2013	to 01-31-2014	-1.07	-2.85	-2.76	128.26	115.73	116.51
01-31-2014	to 02-28-2014	6.81	5.15	5.12	137.00	121.69	122.48
02-28-2014	to 03-31-2014	-7.00	-1.01	-1.13	127.41	120.46	121.10
03-31-2014	to 04-30-2014	-4.97	0.00	-0.41	121.07	120.47	120.61
04-30-2014	to 05-31-2014	2.87	3.12	2.95	124.55	124.22	124.16
05-31-2014	to 06-30-2014	2.94	1.95	2.27	128.21	126.64	126.98
06-30-2014	to 07-31-2014	0.51	-1.53	-1.89	128.87	124.70	124.58
07-31-2014	to 08-31-2014	5.38	4.58	4.66	135.81	130.42	130.39
08-31-2014	to 09-30-2014	-2.44	-1.45	-1.75	132.49	128.53	128.11
09-30-2014	to 10-31-2014	3.18	2.64	2.90	136.71	131.91	131.82
10-31-2014	to 11-30-2014	1.56	3.17	2.98	138.84	136.09	135.74
11-30-2014	to 12-31-2014	-1.83	-1.04	-0.75	136.30	134.67	134.73
12-31-2014	to 01-31-2015	0.87	-1.53	-1.59	137.48	132.61	132.59
01-31-2015	to 02-28-2015	8.35	6.67	6.71	148.97	141.45	141.48
02-28-2015	to 03-31-2015	-1.39	-1.14	-0.92	146.89	139.84	140.18
03-31-2015	to 04-30-2015	-0.32	0.50	0.23	146.42	140.54	140.51
04-30-2015	to 05-31-2015	0.28	1.41	1.58	146.83	142.52	142.73
05-31-2015	to 06-30-2015	1.44	-1.76	-1.52	148.95	140.01	140.56
06-30-2015	to 07-31-2015	5.21	3.39	3.14	156.71	144.76	144.98
07-31-2015	to 08-31-2015	-6.87	-6.07	-6.19	145.95	135.97	136.00
08-31-2015	to 09-30-2015	-2.45	-2.47	-2.78	142.37	132.60	132.22
09-30-2015	to 10-31-2015	9.81	8.61	8.39	156.33	144.02	143.31
10-31-2015	to 11-30-2015	-0.14	0.28	0.53	156.12	144.43	144.07
11-30-2015	to 12-31-2015	-1.07	-1.47	-1.72	154.45	142.31	141.59
12-31-2015	to 01-31-2016	-8.62	-5.58	-5.97	141.13	134.36	133.13
Date to Date							
05-02-2013	to 01-31-2016	41.13	34.36	33.13			

The Ithaka Group
TRANSACTION SUMMARY
North Carolina Retirement System
North Carolina Department of State Treasurer
From 01-01-2016 To 01-31-2016

Tran Code	Security	Trade Date	Settle Date	Quantity	Close Meth.	S/D Type	S/D Symbol	Trade Amount	Lot
wd	Dividend Accruals	01-04-2016	01-04-2016			caus	BNYMMF	480.32	
in	BNY MELLON MMF	01-05-2016	01-05-2016			caus	BNYMMF	47.06	
dv	Mastercard Inc.	01-06-2016	02-09-2016			caus	divacc	1,605.50	
wd	Dividend Accruals	01-11-2016	01-11-2016			caus	BNYMMF	3,407.29	
dp	Management Fee	01-27-2016	01-27-2016			caus	BNYMMF	28,770.68	
	4TH QTR MANAGEMENT FEES 2015								
by	Adobe Systems Inc.	01-29-2016	02-03-2016	4,160.0000		caus	BNYMMF	360,464.00	1
by	Alphabet Inc. Class C	01-29-2016	02-03-2016	127.0000		caus	BNYMMF	93,777.12	4
sl	Apple Inc.	01-29-2016	02-03-2016	4,809.0000 f		caus	BNYMMF	460,395.56	1