

NUVEEN SELECT MATURITIES MUNICIPAL FUND
Form N-Q
August 29, 2012

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT
COMPANY

Investment Company Act file number 811-7056

Nuveen Select Maturities Municipal Fund
(Exact name of registrant as specified in charter)

Nuveen Investments
333 West Wacker Drive, Chicago, Illinois 60606
(Address of principal executive offices) (Zip code)

Kevin J. McCarthy
Vice President and Secretary
333 West Wacker Drive, Chicago, Illinois 60606
(Name and address of agent for service)

Registrant's telephone number, including area code: 312-917-7700

Date of fiscal year end: 3/31

Date of reporting period: 6/30/12

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

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Item 1. Schedule of Investments

Portfolio of Investments (Unaudited)
 Nuveen Select Maturities Municipal Fund (NIM)
 June 30, 2012

Principal Amount	Description (1)	Optional Call Provisions	(2) Ratings	(3) Value
\$ 180	Alabama – 0.1% Birmingham Special Care Facilities Financing Authority, Alabama, Revenue Bonds, Baptist Health System Inc., Series 2005A, 5.000%, 11/15/30	11/15 at 100.00	Baa2	\$ 180,655
155	Alaska – 0.1% Alaska State, Sport Fishing Revenue Bonds, Series 2011, 5.000%, 4/01/21	4/20 at 100.00	A1	181,029
425	Arizona – 2.6% Arizona Sports and Tourism Authority, Senior Revenue Refunding Bonds, Multipurpose Stadium Facility Project, Series 2012A: 5.000%, 7/01/25	7/22 at 100.00	A1	481,878
685	5.000%, 7/01/26	7/22 at 100.00	A1	773,886
685	5.000%, 7/01/27 Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007:	7/22 at 100.00	A1	767,111
100	5.000%, 12/01/17	No Opt. Call	A–	106,910
85	5.250%, 12/01/19	No Opt. Call	A–	92,920
35	5.000%, 12/01/32	No Opt. Call	A–	35,864
380	5.000%, 12/01/37 Surprise Municipal Property Corporation, Arizona, Wastewater	No Opt. Call	A–	385,491
750	System Revenue Bonds, Series 2007, 4.500%, 4/01/17	10/12 at 100.00	A–	753,360
3,145	Total Arizona			3,397,420
1,500	Arkansas – 2.7% Jefferson County, Arkansas, Pollution Control Revenue Bonds, Entergy Arkansas Inc. Project, Series 2006, 4.600%, 10/01/17	9/12 at 100.00	A–	1,503,075
1,000			A	1,016,390

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	Jonesboro, Arkansas, Industrial Development Revenue Bonds, Anheuser Busch Inc. Project, Series 2002, 4.600%, 11/15/12	No Opt. Call		
880	North Little Rock, Arkansas, Electric Revenue Refunding Bonds, Series 1992A, 6.500%, 7/01/15 – NCFG Insured	No Opt. Call	BBB	953,621
3,380	Total Arkansas California – 4.0%			3,473,086
470	California Health Facilities Financing Authority, Revenue Bonds, Catholic Healthcare West, Series 2008H, 5.125%, 7/01/22	7/15 at 100.00	A+	507,309
125	California Health Facilities Financing Authority, Revenue Bonds, Lucile Salter Packard Children’s Hospital, Series 2008A, 1.450%, 8/15/33 (Mandatory put 3/15/17)	No Opt. Call	AA	125,934
160	California Health Facilities Financing Authority, Revenue Bonds, Lucile Salter Packard Children’s Hospital, Series 2012C, 1.450%, 8/15/23 (Mandatory put 3/15/17)	No Opt. Call	AA	161,195
500	California State, General Obligation Bonds, Various Purpose Series 2010, 5.500%, 3/01/40	3/20 at 100.00	A1	562,630
135	California Statewide Communities Development Authority, Revenue Bonds, Kaiser Permanente, Series 2009E-1, 5.000%, 4/01/44 (Mandatory put 5/01/17)	No Opt. Call	A+	156,601
1,000	Ceres Unified School District, Stanislaus County, California, General Obligation Bonds, Series 2002B, 0.000%, 8/01/31 – FGIC Insured	8/12 at 33.14	A+	327,090
340	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 4.500%, 6/01/27	6/17 at 100.00	BB–	281,051
365	Lake Elsinore Redevelopment Agency, California, Special Tax Bonds, Community Facilities District 90-2, Series 2007A, 4.500%, 10/01/24	10/17 at 100.00	AA–	376,822
250	Moulton Niguel Water District, California, Certificates of Participation, Refunding Series 2003: 5.000%, 9/01/21 – AMBAC Insured	9/16 at 100.00	AAA	275,808
250	5.000%, 9/01/22 – AMBAC Insured	9/16 at 100.00	AAA	273,623
500	5.000%, 9/01/23 – AMBAC Insured	9/16 at 100.00	AAA	545,175
2,000	Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/25 – AGC Insured	No Opt. Call	AA–	1,113,900
2,000	San Diego Community College District, California, General Obligation Bonds, Refunding Series 2011, 0.000%, 8/01/37	No Opt. Call	AA+	569,360
8,095	Total California Colorado – 6.8%			5,276,498
2,895	Centennial Downs Metropolitan District, Colorado, General Obligation Bonds, Series 1999, 5.000%, 12/01/20 – AMBAC Insured	12/14 at 100.00	N/R	3,003,997
1,000			BBB	1,000,870

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	Colorado Educational and Cultural Facilities Authority, Charter School Revenue Bonds, Douglas County School District RE-1 – DCS Montessori School, Series 2002A, 6.000%, 7/15/22	7/12 at 100.00		
1,175	Colorado Educational and Cultural Facilities Authority, Revenue Bonds, Classical Academy Charter School, Series 2003, 4.500%, 12/01/18 – SYNCORA GTY Insured	12/13 at 100.00	A	1,200,932
125	Colorado Housing Finance Authority, Single Family Program Senior Bonds, Series 2000D-2, 6.900%, 4/01/29 (Alternative Minimum Tax)	10/12 at 104.50	AA	130,750
1,465	Denver West Metropolitan District, Colorado, General Obligation Refunding and Improvement Bonds, Series 2003, 4.500%, 12/01/18 – RAAI Insured	12/13 at 100.00	A–	1,484,499
1,500	E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2007C-2, 5.000%, 9/01/39 (Mandatory put 9/02/13) – NPMFG Insured	No Opt. Call	BBB	1,559,040
1,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 – NPMFG Insured	9/20 at 41.72	BBB	248,730
200	Regional Transportation District, Colorado, Denver Transit Partners Eagle P3 Project Private Activity Bonds, Series 2010, 6.000%, 1/15/41	7/20 at 100.00	Baa3	223,272
9,360	Total Colorado Connecticut – 1.3%			8,852,090
	Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A:			
185	5.500%, 1/01/14 (Alternative Minimum Tax)	1/13 at 100.00	BBB	185,653
1,570	5.500%, 1/01/15 (Alternative Minimum Tax)	1/15 at 100.00	BBB	1,574,993
1,755	Total Connecticut			1,760,646
	Florida – 7.1%			
160	Citizens Property Insurance Corporation, Florida, High-Risk Account Revenue Bonds, Coastal Account Senior Secured Series 2011A-1, 5.000%, 6/01/18	No Opt. Call	A+	179,986
2,400	Deltona, Florida, Utility Systems Water and Sewer Revenue Bonds, Series 2003, 5.250%, 10/01/17 – NPMFG Insured	10/13 at 100.00	A1	2,489,712
	Florida Citizens Property Insurance Corporation, High Risk Account Revenue Bonds, Series 2007A:			
1,165	5.000%, 3/01/15 – NPMFG Insured	No Opt. Call	A+	1,269,757
210	5.000%, 3/01/16 – NPMFG Insured	No Opt. Call	A+	232,548
455	Florida Citizens Property Insurance Corporation, Personal and Commercial Lines Account Bonds, Senior Secured Series 2012A-1, 5.000%, 6/01/20	No Opt. Call	A+	511,934
600	Florida Department of Environmental Protection, Florida Forever Revenue Bonds, Series 2007B,	7/17 at 101.00	AA–	699,192

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	5.000%, 7/01/19 – NPMG Insured			
15	JEA, Florida, Electric Revenue Certificates, Series 1973-2, 6.800%, 7/01/12 (ETM)	No Opt. Call	AAA	15,000
	Miami-Dade County, Florida, Public Facilities Revenue Bonds, Jackson Health System, Series 2009:			
10	5.500%, 6/01/29 – AGM Insured	6/19 at 100.00	AA–	11,061
10	5.625%, 6/01/34 – AGC Insured	6/19 at 100.00	AA–	10,895
750	North Sumter County Utility Dependent District, Florida, Utility Revenue Bonds, Series 2010, 5.000%, 10/01/20	No Opt. Call	A	832,290
2,000	Orange County, Florida, Tourist Development Tax Revenue Bonds, Series 2005, 5.000%, 10/01/22 – AMBAC Insured	10/15 at 100.00	AA–	2,232,720
200	Port Everglades Authority, Florida, Port Facilities Revenue Bonds, Series 1986, 7.125%, 11/01/16 (ETM)	No Opt. Call	Aaa	227,900
500	South Miami Health Facilities Authority, Florida, Hospital Revenue, Baptist Health System Obligation Group, Series 2007, 5.000%, 8/15/27	8/17 at 100.00	AA	546,215
8,475	Total Florida Georgia – 0.8%			9,259,210
355	Cherokee County Water and Sewerage Authority, Georgia, Revenue Bonds, Series 1995, 5.200%, 8/01/25 (Pre-refunded 8/01/22) – NPMG Insured	8/22 at 100.00	BBB (4)	418,481
600	Private Colleges and Universities Authority, Georgia, Revenue Bonds, Mercer University Project, Refunding Series 2012C, 5.250%, 10/01/23	10/22 at 100.00	Baa2	671,664
955	Total Georgia Idaho – 0.1%			1,090,145
100	Madison County, Idaho, Hospital Revenue Certificates of Participation, Madison Memorial Hospital, Series 2006, 5.250%, 9/01/37	9/16 at 100.00	BB+	99,508
325	Illinois – 13.0% Chicago, Illinois, Tax Increment Allocation Bonds, Irving/Cicero Redevelopment Project, Series 1998, 7.000%, 1/01/14	1/13 at 100.00	N/R	325,770
1,500	Cook County Township High School District 208, Illinois, General Obligation Bonds, Series 2006, 5.000%, 12/01/21 – NPMG Insured	12/15 at 100.00	Aa3	1,693,665
2,000	Huntley, Illinois, Special Service Area 9, Special Tax Bonds, Series 2007, 5.100%, 3/01/28 – AGC Insured	3/17 at 100.00	AA–	2,148,780
2,000	Illinois Educational Facilities Authority, Revenue Bonds, Art Institute of Chicago, Series 2000C, 4.450%, 3/01/34 (Mandatory put 3/01/15)	No Opt. Call	A+	2,146,960
85	Illinois Finance Authority, Revenue Bonds, OSF Healthcare System, Series 2007A, 5.750%, 11/15/37	11/17 at 100.00	A	91,980
250	Illinois Finance Authority, Revenue Bonds, Roosevelt University, Series 2007, 5.250%, 4/01/22	4/17 at 100.00	BBB+	259,445

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Illinois Health Facilities Authority, Revenue Bonds, Sherman Health Systems, Series 1997:

135	5.250%, 8/01/17 – AMBAC Insured	9/12 at 100.00	BBB	135,296
85	5.250%, 8/01/22 – AMBAC Insured	8/12 at 100.00	BBB	85,125
700	Illinois Health Facilities Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 1999, 5.500%, 8/15/19	9/12 at 100.00	BBB–	701,057
110	Illinois Health Facilities Authority, Revenue Refunding Bonds, Elmhurst Memorial Healthcare, Series 2002, 5.625%, 1/01/28	1/13 at 100.00	BBB+	112,077
100	Illinois State, General Obligation Bonds, Refunding Series 2006, 5.000%, 1/01/15	No Opt. Call	A+	108,125
235	Illinois State, General Obligation Bonds, Refunding Series 2007B, 5.000%, 1/01/16	No Opt. Call	A+	259,804
315	Illinois State, General Obligation Bonds, Refunding Series 2008, 4.250%, 4/01/16	No Opt. Call	A+	341,558
1,165	Illinois State, General Obligation Bonds, Refunding Series 2010, 5.000%, 1/01/19	No Opt. Call	A+	1,311,674
390	Illinois State, General Obligation Bonds, Refunding Series 2012: 5.000%, 8/01/20	No Opt. Call	A+	439,226
320	5.000%, 8/01/21	No Opt. Call	A+	359,654
275	5.000%, 8/01/23	No Opt. Call	A+	306,314
110	5.000%, 8/01/24	No Opt. Call	A+	120,548
230	Illinois State, General Obligation Bonds, Series 2006, 5.000%, 1/01/17	1/16 at 100.00	A+	251,408
25	Illinois State, General Obligation Bonds, Series 2007A, 5.500%, 6/01/15	No Opt. Call	A+	27,685
300	Illinois State, General Obligation Bonds, Series 2012A, 4.000%, 1/01/20	No Opt. Call	A+	317,028
275	Illinois, General Obligation Bonds, Illinois FIRST Program, Series 2002, 5.250%, 12/01/19 (Pre-refunded 12/01/12) – AGM Insured	12/12 at 100.00	AA– (3)	280,717
1,355	Kane & DeKalb Counties Community Unit School District 301, Illinois, General Obligation Bonds, Series 2006, 0.000%, 12/01/18 – NPMG Insured	No Opt. Call	Aa3	1,131,032
55	Metropolitan Pier and Exposition Authority, Illinois, Dedicated State Tax Revenue Bonds, Series 2002, 5.375%, 6/01/15 (Pre-refunded 6/01/13) – FGIC Insured	6/13 at 100.00	AAA	57,613
1,000	Peoria Public Building Commission, Illinois, School District Facility Revenue Bonds, Peoria County School District 150 Project, Series 2009A, 0.000%, 12/01/22 – AGC Insured	12/18 at 79.62	AA–	627,250
500	Railsplitter Tobacco Settlement Authority, Illinois, Tobacco Settlement Revenue Bonds, Series 2010: 5.000%, 6/01/19		A	568,805

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		No Opt. Call		
1,000	5.250%, 6/01/21 Regional Transportation Authority, Cook, DuPage, Kane, Lake, 700 McHenry and Will Counties, Illinois, General Obligation Bonds, Series 1994D, 7.750%, 6/01/19 – FGIC Insured	No Opt. Call	A	1,164,240
715	Williamson & Johnson Counties Community Unit School District 2, Marion, Illinois, Limited Tax General Obligation Lease Certificates, Series 2011, 7.000%, 10/15/22	10/19 at 103.00	BBB	792,149
16,255	Total Illinois Indiana – 0.6%			17,036,737
250	Indiana Finance Authority, Educational Facilities Revenue Bonds, Drexel Foundation For Educational Excellence, Inc., Series 2009A, 6.000%, 10/01/21	10/19 at 100.00	BB+	263,480
250	Jasper County, Indiana, Pollution Control Revenue Refunding Bonds, Northern Indiana Public Service Company Project, Series 1994A Remarketed, 5.850%, 4/01/19 – NPFG Insured	No Opt. Call	BBB	293,280
250	Lake County Building Corporation, Indiana, First Mortgage Bonds, Series 2012, 4.750%, 2/01/21	No Opt. Call	NA	258,270
750	Total Indiana Iowa – 0.4%			815,030
500	Ames, Iowa, Hospital Revenue Bonds, Mary Greeley Medical Center, Series 2011, 5.250%, 6/15/27	6/20 at 100.00	A2	548,315
95	Kansas – 0.3% Wyandotte County-Kansas City Unified Government, Kansas, Sales Tax Special Obligation Bonds, Redevelopment Project Area B, Series 2005, 5.000%, 12/01/20	12/15 at 100.00	AA–	100,721
370	Wyandotte County-Kansas City Unified Government, Kansas, Sales Tax Special Obligation Capital Appreciation Revenue Bonds Redevelopment Project Area B – Major Multi-Sport Athletic Complex Project, Subordinate Lien Series 2010B, 0.000%, 6/01/21	No Opt. Call	BBB	249,032
465	Total Kansas Kentucky – 1.3%			349,753
325	Kentucky Economic Development Finance Authority, Louisville Arena Project Revenue Bonds, Louisville Arena Authority, Inc., Series 2008-A1, 5.750%, 12/01/28 – AGC Insured	6/18 at 100.00	AA–	358,225
460	Kentucky Housing Corporation, Housing Revenue Bonds, Series 2005G, 5.000%, 7/01/30 (Alternative Minimum Tax)	1/15 at 100.60	AAA	466,251
340	Lexington-Fayette Urban County Government Public Facilities Corporation, Kentucky State Lease Revenue Bonds, Eastern State Hospital Project, Series 2011A, 5.250%, 6/01/29	6/21 at 100.00	Aa3	385,948
150	Louisville-Jefferson County Metropolitan Government, Kentucky, Environmental Facilities Revenue,	No Opt. Call	A–	151,329

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	Louisville Gas & Electric Company Project, 1.600%, 6/01/33 (Mandatory put 6/01/17)			
320	Louisville-Jefferson County Metropolitan Government, Kentucky, Pollution Control Revenue Bonds, Louisville Gas and Electric Company Project, Sereis 2003A, 1.650%, 10/01/33 (Mandatory put 4/03/17)	No Opt. Call	A+	325,197
1,595	Total Kentucky Louisiana – 1.6%			1,686,950
1,010	Louisiana Public Facilities Authority, Revenue Bonds, Baton Rouge General Hospital, Series 2004, 5.250%, 7/01/24 – NPMG Insured	7/14 at 100.00	BBB	1,066,237
55	Louisiana Public Facilities Authority, Revenue Bonds, Ochsner Clinic Foundation Project, Series 2007A, 5.250%, 5/15/38	5/17 at 100.00	Baa1	56,266
385	Saint Charles Parish, Louisiana, Gulf Opportunity Zone Revenue Bonds, Valero Project, Series 2010, 4.000%, 12/01/40 (Mandatory put 6/01/22)	No Opt. Call	BBB	398,167
330	Tobacco Settlement Financing Corporation, Louisiana, Tobacco Settlement Asset-Backed Bonds, Series 2001B: 5.500%, 5/15/30	11/12 at 100.00	A1	337,395
245	5.875%, 5/15/39	11/12 at 100.00	A–	250,172
2,025	Total Louisiana Maryland – 0.8%			2,108,237
1,100	Maryland Energy Financing Administration, Revenue Bonds, AES Warrior Run Project, Series 1995, 7.400%, 9/01/19 (Alternative Minimum Tax)	9/12 at 100.00	N/R	1,106,138
500	Massachusetts – 1.0% Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.000%, 10/01/19	10/17 at 100.00	N/R	505,950
250	Massachusetts Development Finance Authority, Revenue Bonds, 100 Cambridge Street Redevelopment, M/SRBC Project, Series 2002A, 5.125%, 2/01/34 – NPMG Insured	9/12 at 100.00	BBB	250,158
100	Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A: 5.200%, 1/01/20 – AMBAC Insured (Alternative Minimum Tax)	9/12 at 100.00	N/R	96,537
470	5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax)	1/13 at 100.00	N/R	418,949
1,320	Total Massachusetts Michigan – 1.6%			1,271,594
400	Detroit, Michigan, Downtown Development Authority, Tax Increment Refunding Bonds, Development Area 1 Projects, Series 1996B, 0.000%, 7/01/23	No Opt. Call	A–	218,276
280	Michigan Finance Authority, Revenue Bonds, Detroit City School District, Series 2012,	No Opt. Call	A+	314,045

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	5.000%, 6/01/18			
1,000	Michigan Hospital Finance Authority, Refunding and Project Revenue Bonds, Ascension Health Senior Credit Group, Series 2010F-5, 1.500%, 11/15/47 (Mandatory put 3/15/17)	No Opt. Call	AA+	1,005,220
500	Wayne County Airport Authority, Michigan, Revenue Bonds, Detroit Metropolitan Airport, Refunding Series 2010C, 5.000%, 12/01/16	No Opt. Call	A	557,695
2,180	Total Michigan			2,095,236
	Minnesota – 2.2%			
1,100	Becker, Minnesota, Pollution Control Revenue Bonds, Northern States Power Company, Series 1993A, 8.500%, 9/01/19	8/12 at 101.00	A1	1,124,123
250	Northern Municipal Power Agency, Minnesota, Electric System Revenue Bonds, Refunding Series 2009A, 5.000%, 1/01/15 – AGC Insured Tobacco Securitization Authority, Minnesota, Tobacco Settlement Revenue Bonds, Tax-Exempt Series 2011B:	No Opt. Call	AA–	275,895
135	5.000%, 3/01/20	No Opt. Call	A	155,513
180	5.000%, 3/01/21	No Opt. Call	A	207,986
145	5.000%, 3/01/22	No Opt. Call	A	167,603
385	5.250%, 3/01/23	3/22 at 100.00	A–	447,582
400	5.250%, 3/01/24	3/22 at 100.00	A–	460,188
2,595	Total Minnesota			2,838,890
	Mississippi – 0.5%			
	Mississippi Hospital Equipment and Facilities Authority, Revenue Bonds, Baptist Memorial Healthcare, Series 2004B-1:			
115	5.000%, 9/01/16	9/14 at 100.00	AA	124,000
300	5.000%, 9/01/24	9/14 at 100.00	AA	312,867
250	Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company, Series 2006A, 4.800%, 8/01/30	9/12 at 100.00	BBB	250,143
665	Total Mississippi			687,010
	Missouri – 1.2%			
300	St. Louis County, Missouri, GNMA Collateralized Mortgage Revenue Bonds, Series 1989A, 8.125%, 8/01/20 (Pre-refunded 7/01/20) (Alternative Minimum Tax)	7/20 at 100.00	AA+ (4)	369,453
1,000	St. Louis, Missouri, Airport Revenue Bonds, Lambert-St. Louis International Airport, Series 2005, 5.500%, 7/01/19 – NPMF Insured	No Opt. Call	A–	1,159,300
1,300	Total Missouri			1,528,753
	Montana – 0.1%			

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90	University of Montana, Revenue Bonds, Series 1996D, 5.375%, 5/15/19 – NPMG Insured (ETM) Nebraska – 0.9%	9/12 at 100.00	BBB (4)	107,497
1,000	Dodge County School District 1, Nebraska, Fremont Public Schools, General Obligation Bonds, Series 2004, 5.000%, 12/15/19 – AGM Insured	12/14 at 100.00	Aa3	1,097,720
100	Douglas County School District 10 Elkhorn, Nebraska, General Obligation Bonds, Public Schools Series 2012, 4.000%, 6/15/23	6/22 at 100.00	AA–	112,057
1,100	Total Nebraska Nevada – 1.8%			1,209,777
1,000	Clark County, Nevada, Airport Revenue Bonds, Subordinate Lien Series 2010B, 5.750%, 7/01/42	1/20 at 100.00	A+	1,126,650
250	Las Vegas Redevelopment Agency, Nevada, Tax Increment Revenue Bonds, Series 2009A, 8.000%, 6/15/30	6/19 at 100.00	BBB–	276,608
775	Washoe County, Nevada, General Obligation Bonds, Reno-Sparks Convention & Visitors Authority, Refunding Series 2011, 5.000%, 7/01/23	7/21 at 100.00	AA	910,222
2,025	Total Nevada New Jersey – 3.4%			2,313,480
305	Bayonne Redevelopment Agency, New Jersey, Revenue Bonds, Royal Caribbean Cruises Project, Series 2006A, 4.750%, 11/01/16 (Alternative Minimum Tax)	No Opt. Call	BB	305,454
150	New Jersey Economic Development Authority, Cigarette Tax Revenue Bonds, Series 2004, 5.375%, 6/15/14	No Opt. Call	Aaa	164,709
15	New Jersey Economic Development Authority, Cigarette Tax Revenue Bonds, Series 2004: 5.375%, 6/15/15 – RAAI Insured (ETM)	No Opt. Call	Aaa	17,155
110	5.500%, 6/15/16 – RAAI Insured (ETM) New Jersey Economic Development Authority, Cigarette Tax Revenue Refunding Bonds, Series 2012:	No Opt. Call	Aaa	131,387
200	5.000%, 6/15/21	No Opt. Call	BBB+	228,706
350	5.000%, 6/15/23	6/22 at 100.00	BBB+	396,599
210	5.000%, 6/15/24	6/22 at 100.00	BBB+	234,499
85	4.250%, 6/15/27	6/22 at 100.00	BBB+	85,597
25	New Jersey Health Care Facilities Financing Authority, State Contract Bonds, Hospital Asset Transformation Program, Series 2008A, 5.250%, 10/01/38	10/18 at 100.00	A+	26,863
1,730	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/33	No Opt. Call	A+	612,783
1,515	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2010D,	No Opt. Call	A+	1,823,166

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	5.000%, 12/15/23			
425	Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 4.500%, 6/01/23	6/17 at 100.00	B1	399,415
5,120	Total New Jersey			4,426,333
	New York – 7.8%			
220	Brooklyn Arena Local Development Corporation, New York, Payment in Lieu of Taxes Revenue Bonds, Barclays Center Project, Series 2009, 6.000%, 7/15/30	1/20 at 100.00	BBB–	247,797
1,000	Dormitory Authority of the State of New York, Revenue Bonds, Brooklyn Law School, Series 2003A, 5.500%, 7/01/15 (Pre-refunded 7/01/13) – RAAI Insured	7/13 at 100.00	BBB+ (4)	1,046,000
770	Dormitory Authority of the State of New York, Third General Resolution Revenue Bonds, State University Educational Facilities Issue, Series 2012A, 5.000%, 5/15/25	5/22 at 100.00	AA–	916,523
400	Hudson Yards Infrastructure Corporation, New York, Revenue Bonds, Senior Fiscal 2012 Series 2011A, 5.750%, 2/15/47	2/21 at 100.00	A	460,236
100	New York City Industrial Development Agency, New York, Civic Facility Revenue Bonds, Special Needs Facilities Pooled Program, Series 2008A-1, 5.700%, 7/01/13	No Opt. Call	N/R	101,125
	New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003A-1:			
250	5.250%, 6/01/20 – AMBAC Insured	6/13 at 100.00	AA–	261,035
200	5.250%, 6/01/21 – AMBAC Insured	6/13 at 100.00	AA–	208,828
640	5.250%, 6/01/22 – AMBAC Insured	6/13 at 100.00	AA–	668,250
	New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003B-1C:			
500	5.500%, 6/01/21	6/13 at 100.00	AA–	523,220
350	5.500%, 6/01/22	6/13 at 100.00	AA–	366,254
	New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2011B:			
360	5.000%, 6/01/17	No Opt. Call	AA–	424,004
565	5.000%, 6/01/18	No Opt. Call	AA–	675,418
4,300	Port Authority of New York and New Jersey, Special Project Bonds, JFK International Air Terminal LLC, Sixth Series 1997, 7.000%, 12/01/12 – NPMFG Insured (Alternative Minimum Tax)	No Opt. Call	BBB	4,362,479
9,655	Total New York			10,261,169
	North Carolina – 1.5%			

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1,880	Union County, North Carolina, Certificates of Participation, Series 2003, 5.000%, 6/01/18 (Pre-refunded 6/01/13) – AMBAC Insured Ohio – 1.7%	6/13 at 101.00	Aa2 (4)	1,971,988
45	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-1, 5.000%, 6/01/17	No Opt. Call	Baa1	49,068
1,200	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2, 5.125%, 6/01/24 New Albany Community Authority, Ohio, Community Facilities Revenue Refunding Bonds, Series 2012C:	6/17 at 100.00	B	968,916
25	4.000%, 10/01/18	No Opt. Call	A1	27,696
30	4.000%, 10/01/19	No Opt. Call	A1	33,362
40	4.000%, 10/01/20	No Opt. Call	A1	44,377
45	5.000%, 10/01/21	No Opt. Call	A1	53,202
35	5.000%, 10/01/22	No Opt. Call	A1	41,369
1,000	Toledo-Lucas County Port Authority, Ohio, Port Revenue Bonds, Cargill Inc., Series 2004B, 4.500%, 12/01/15	No Opt. Call	A	1,075,580
2,420	Total Ohio			2,293,570
1,000	Oklahoma – 0.8% Oklahoma Capitol Improvement Authority, State Facilities Revenue Bonds, Series 2005F, 5.000%, 7/01/27 – AMBAC Insured Pennsylvania – 7.0% Cumberland County Municipal Authority, Pennsylvania, Revenue Bonds, Presbyterian Homes Inc., Refunding Series 2005A, 5.000%, 12/01/15 – RAAI Insured	7/15 at 100.00	AA	1,100,930
100	Luzerne County Industrial Development Authority, Pennsylvania, Guaranteed Lease Revenue Bonds, Series 2009, 7.750%, 12/15/27	No Opt. Call	BBB+	107,468
200	Pennsylvania Higher Educational Facilities Authority, College Revenue Bonds, Ninth Series 1976, 7.625%, 7/01/15 (ETM)	12/19 at 100.00	N/R	208,454
495	Pennsylvania Higher Educational Facilities Authority, Revenue Bonds, University of the Arts, Series 1999, 5.150%, 3/15/20 – RAAI Insured (ETM)	No Opt. Call	Aaa	544,119
225	Pennsylvania Turnpike Commission, Motor License Fund-Enhanced Subordinate Special Revenue Bonds, Series 2010A, 0.000%, 12/01/34	9/12 at 100.00	N/R (4)	262,044
580	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Eighteenth Series 2004, 5.000%, 8/01/15 – AMBAC Insured	12/20 at 100.00	AA	532,486
4,120		8/14 at 100.00	BBB+	4,393,238
1,235			BBB (4)	1,544,886

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	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Twelfth Series 1990B, 7.000%, 5/15/20 – NPMFG Insured (ETM)	No Opt. Call		
1,085	Pittsburgh School District, Allegheny County, Pennsylvania, General Obligation Bonds, Series 2006B, 5.000%, 9/01/12 – AMBAC Insured	No Opt. Call	Aa3	1,093,474
95	St. Mary Hospital Authority, Pennsylvania, Health System Revenue Bonds, Catholic Health East, Series 2009D, 6.250%, 11/15/34	5/19 at 100.00	A+	110,181
330	Union County Hospital Authority, Pennsylvania, Hospital Revenue Bonds, Evangelical Community Hospital Project, Refunding and Improvement Series 2011, 5.750%, 8/01/21	No Opt. Call	BBB+	372,184
8,465	Total Pennsylvania			9,168,534
	Puerto Rico – 0.8%			
1,000	Puerto Rico Sales Tax Financing Corporation, Sales Tax Revenue Bonds, First Subordinate Series 2009A, 0.000%, 8/01/32	8/26 at 100.00	A+	1,021,260
	Rhode Island – 1.0%			
	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2002A:			
380	6.125%, 6/01/32	9/12 at 100.00	BBB+	387,182
865	6.250%, 6/01/42	9/12 at 100.00	BBB+	879,973
1,245	Total Rhode Island			1,267,155
	South Carolina – 5.0%			
750	Berkeley County School District, South Carolina, Installment Purchase Revenue Bonds, Securing Assets for Education, Series 2003, 5.250%, 12/01/19	12/13 at 100.00	A1	786,615
1,540	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured (ETM)	No Opt. Call	Baa1 (4)	2,039,899
2,835	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured	No Opt. Call	Baa1	3,645,640
5	South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon Secours Health System Inc., Series 2002A, 5.625%, 11/15/30 (Pre-refunded 11/15/12)	11/12 at 100.00	A3 (4)	5,103
20	South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon Secours Health System Inc., Series 2002B, 5.625%, 11/15/30	11/12 at 100.00	A–	20,317
5,150	Total South Carolina			6,497,574
	South Dakota – 0.8%			
1,000	South Dakota Health and Educational Facilities Authority, Revenue Bonds, Sanford Health, Series 2007, 5.000%, 11/01/27	5/17 at 100.00	AA–	1,065,140
	Tennessee – 1.9%			

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Shelby County Health, Educational and Housing Facilities Board,
Tennessee, Hospital Revenue
Bonds, Methodist Healthcare, Series 2002:

750	6.000%, 9/01/17 (Pre-refunded 9/01/12)	9/12 at 100.00	AA+ (4)	757,545
1,250	6.000%, 9/01/17 (Pre-refunded 9/01/12)	9/12 at 100.00	AA+ (4)	1,262,575
400	The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006A, 5.000%, 9/01/13	No Opt. Call	A	416,100
2,400	Total Tennessee Texas – 9.3%			2,436,220
1,055	Austin, Texas, General Obligation Bonds, Series 2004, 5.000%, 9/01/20 (Pre-refunded 9/01/14) – NPFPG Insured	9/14 at 100.00	AAA	1,160,458
565	Bexar County Housing Finance Corporation, Texas, FNMA Guaranteed Multifamily Housing Revenue Bonds, Villas Sonterra Apartments Project, Series 2007A, 4.700%, 10/01/15 (Alternative Minimum Tax)	No Opt. Call	N/R	598,973
25	Brazos River Authority, Texas, Collateralized Pollution Control Revenue Bonds, Texas Utilities Electric Company, Series 2003D, 5.400%, 10/01/29 (Mandatory put 10/01/14)	No Opt. Call	CC	7,087
2,000	Brazos River Authority, Texas, Collateralized Revenue Refunding Bonds, CenterPoint Energy Inc., Series 2004B, 4.250%, 12/01/17 – FGIC Insured	6/14 at 100.00	A	2,075,160
15	Brazos River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Energy Company LLC, Series 2003A, 6.750%, 4/01/38 (Mandatory put 4/01/13) (Alternative Minimum Tax)	No Opt. Call	CC	11,762
500	Central Texas Regional Mobility Authority, Senior Lien Revenue Bonds, Series 2011, 6.250%, 1/01/46	1/21 at 100.00	BBB–	562,025
1,875	Denton Independent School District, Denton County, Texas, General Obligation Bonds, Series 2006, 5.000%, 8/15/20	8/16 at 100.00	AAA	2,167,725
1,000	Houston, Texas, Hotel Occupancy Tax and Special Revenue Bonds, Convention and Entertainment Facilities Department, Refunding Series 2011B, 5.250%, 9/01/25	9/16 at 100.00	A2	1,122,580
500	Houston, Texas, Hotel Occupancy Tax and Special Revenue Bonds, Convention and Entertainment Project, Series 2001B, 0.000%, 9/01/23 – AMBAC Insured	No Opt. Call	A2	309,420
300	Kerrville Health Facilities Development Corporation, Texas, Revenue Bonds, Sid Peterson Memorial Hospital Project, Series 2005, 5.125%, 8/15/26	2/16 at 100.00	BBB–	305,823
200	Love Field Airport Modernization Corporation, Texas, Special Facilities Revenue Bonds, Southwest Airlines Company, Series 2010, 5.250%, 11/01/40	11/20 at 100.00	BBB–	210,818
	North Central Texas Health Facilities Development Corporation, Texas, Revenue Bonds, Children’s			

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Medical Center Dallas Project, Series 2012:

370	5.000%, 8/15/24	8/22 at 100.00	AA	426,347
380	5.000%, 8/15/25	8/22 at 100.00	AA	433,637
	North Texas Tollway Authority, Second Tier System Revenue	1/18 at		
325	Refunding Bonds, Series 2008F, 5.750%, 1/01/38	100.00	A3	352,437
	North Texas Tollway Authority, Special Projects System Revenue	9/21 at		
750	Bonds, Current Interest Series 2011D, 5.000%, 9/01/24	100.00	AA	895,485
	North Texas Tollway Authority, Special Projects System Revenue Bonds, Series 2011A:			
		9/31 at		
100	0.000%, 9/01/43	100.00	AA	67,023
		9/31 at		
490	0.000%, 9/01/45	100.00	AA	362,708
	Texas Municipal Gas Acquisition and Supply Corporation I, Gas	9/12 at		
1,195	Supply Revenue Bonds, Series 2006B, 0.863%, 12/15/17	100.00	A-	1,112,091
11,645	Total Texas			12,181,559
	Virgin Islands – 0.4%			
	Virgin Islands Public Finance Authority, Matching Fund Loan Notes	10/20 at		
525	Revenue Bonds, Senior Lien Series 2010A, 5.000%, 10/01/29	100.00	BBB+	561,383
	Virginia – 0.6%			
	Virginia College Building Authority, Educational Facilities Revenue	1/13 at		
250	Refunding Bonds, Marymount University, Series 1998, 5.100%, 7/01/18 – RAAI Insured	100.00	N/R	250,450
	Virginia Small Business Financing Authority, Senior Lien Revenue	7/22 at		
500	Bonds, Elizabeth River Crossing, Opcos LLC Project, Series 2012, 5.500%, 1/01/42 (Alternative Minimum Tax)	100.00	BBB-	527,145
750	Total Virginia			777,595
	Washington – 1.6%			
	Washington Health Care Facilities Authority, Revenue Bonds, Fred	1/21 at		
1,050	Hutchinson Cancer Research Center, Series 2011A, 5.375%, 1/01/31	100.00	A	1,134,746
	Washington Public Power Supply System, Revenue Refunding	No Opt.		
305	Bonds, Nuclear Project 3, Series 1989B, 7.125%, 7/01/16 – NPFG Insured	Call	Aa1	379,762
	Washington State Tobacco Settlement Authority, Tobacco Settlement	6/13 at		
565	Asset-Backed Revenue Bonds, Series 2002, 6.500%, 6/01/26	100.00	A3	589,227
1,920	Total Washington			2,103,735
	Wisconsin – 1.4%			
	Wisconsin Health and Educational Facilities Authority, Revenue	No Opt.		
285	Bonds, Aurora Health Care, Inc., Series 2010B, 5.000%, 7/15/20	Call	A	330,124
	Wisconsin Health and Educational Facilities Authority, Revenue	7/21 at		
675	Bonds, Aurora Health Care, Inc.,	100.00	A	747,826

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Series 2012A, 5.000%, 7/15/25
 Wisconsin Health and Educational Facilities Authority, Revenue
 Bonds, Wheaton Franciscan
 Healthcare System, Series 2006:

		8/16 at		
500	5.250%, 8/15/18	100.00	A-	550,395
		8/16 at		
180	5.250%, 8/15/34	100.00	A-	186,499
1,640	Total Wisconsin			1,814,844
\$ 125,380	Total Long-Term Investments (cost \$120,600,768) – 97.9%			128,222,673
	Short-Term Investments – 1.2%			
	Missouri – 1.2%			
	St. Louis, Missouri, Airport Revenue Bonds, Lambert-St. Louis	No Opt.		
\$ 1,530	International Airport, Variable Rate	Call	A-2	1,530,000
	Demand Obligations, Tender Option Bond Trust DCL-017, 0.870%, 7/01/22 (5)			
	Total Short-Term Investments (cost \$1,530,000)			1,530,000
	Total Investments (cost \$122,130,768) – 99.1%			129,752,673
	Other Assets Less Liabilities – 0.9%			1,138,891
				\$
	Net Assets – 100%			130,891,564

Fair Value Measurements

Fair value is defined as the price that the Fund would receive upon selling an investment or transferring a liability in an orderly transaction to an independent buyer in the principal or most advantageous market for the investment. A three-tier hierarchy is used to maximize the use of observable market data and minimize the use of unobservable inputs and to establish classification of fair value measurements for disclosure purposes. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability. Observable inputs are based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Unobservable inputs are based on the best information available in the circumstances. The following is a summary of the three-tiered hierarchy of valuation input levels.

Level 1 – Inputs are unadjusted and prices are determined using quoted prices in active markets for identical securities.

Level 2 – Prices are determined using other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – Prices are determined using significant unobservable inputs (including management's assumptions in determining the fair value of investments).

The inputs or methodologies used for valuing securities are not an indication of the risks associated with investing in those securities. The following is a summary of the Fund's fair value measurements as of the end of the reporting period:

	Level 1	Level 2	Level 3	Total
Long-Term Investments:				

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Municipal Bonds	\$ —	\$128,222,673	\$ —	\$128,222,673
Short-Term Investments:				
Municipal Bonds	—	1,530,000	—	1,530,000
Total	\$ —	\$129,752,673	\$ —	\$129,752,673

Income Tax Information

The following information is presented on an income tax basis. Differences between amounts for financial statement and federal income tax purposes are primarily due to timing differences in recognizing taxable market discount and timing differences in recognizing certain gains and losses on investment transactions. To the extent that differences arise that are permanent in nature, such amounts are reclassified within the capital accounts on the Statement of Assets and Liabilities presented in the annual report, based on their federal tax basis treatment; temporary differences do not require reclassification. Temporary and permanent differences do not impact the net asset value of the Fund.

At June 30, 2012, the cost of investments was \$121,988,509.

Gross unrealized appreciation and gross unrealized depreciation of investments at June 30, 2012, were as follows:

Gross unrealized:	
Appreciation	\$8,036,969
Depreciation	(272,805)
Net unrealized appreciation (depreciation) of investments	\$7,764,164

- (1) All percentages shown in the Portfolio of Investments are based on net assets.
 - (2) Optional Call Provisions: Dates (month and year) and prices of the earliest optional call or redemption. There may be other call provisions at varying prices at later dates. Certain mortgage-backed securities may be subject to periodic principal paydowns.
 - (3) Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investors Service, Inc. ("Moody's") or Fitch, Inc. ("Fitch") rating. Ratings below BBB by Standard & Poor's, Baa by Moody's or BBB by Fitch are considered to be below investment grade. Holdings designated N/R are not rated by any of these national rating agencies.
Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities,
 - (4) which ensure the timely payment of principal and interest. Certain bonds backed by U.S. Government or agency securities are regarded as having an implied rating equal to the rating of such securities.
 - (5) Investment has a maturity of more than one year, but has variable rate and demand features which qualify it as a short-term investment. The rate disclosed is that in effect at the end of the reporting period. The rate changes periodically based on market conditions or a specified market index.
- N/R Not rated.
(ETM) Escrowed to maturity.

Item 2. Controls and Procedures.

- a. The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act") (17 CFR 270.30a-3(c))) are effective, as of a date within 90 days of the filing date of this report that includes the disclosure required by this paragraph, based on their evaluation of the controls and procedures required by Rule 30a-3(b) under the 1940 Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934 (17 CFR 240.13a-15(b) or 240.15d-15(b)).

- b. There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act (17 CFR 270.30a-3(d))) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3. Exhibits.

File as exhibits as part of this Form a separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)), exactly as set forth below: See EX-99 CERT attached hereto.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Nuveen Select Maturities Municipal Fund

By (Signature and Title) /s/ Kevin J. McCarthy
Kevin J. McCarthy
Vice President and Secretary

Date: August 29, 2012

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By (Signature and Title) /s/ Gifford R. Zimmerman
Gifford R. Zimmerman
Chief Administrative Officer (principal executive officer)

Date: August 29, 2012

By (Signature and Title) /s/ Stephen D. Foy
Stephen D. Foy
Vice President and Controller (principal financial officer)

Date: August 29, 2012