

NUVEEN SELECT MATURITIES MUNICIPAL FUND  
Form N-Q  
March 01, 2011

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: 12/31/10

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)  
 December 31, 2010

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Alabama – 2.7% (2.8% of Total Investments)			
	Alabama 21st Century Authority, Tobacco Settlement Revenue Bonds, Series 2001:			
\$ 2,000	5.750%, 12/01/17	12/11 at 101.00	A–	\$ 2,032,120
200	5.500%, 12/01/21	12/11 at 101.00	A–	192,528
180	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	156,802
500	Jefferson County, Alabama, Sewer Revenue Refunding Warrants, Series 2003B, 5.250%, 2/01/12 – AGM Insured	2/11 at 100.00	AA+	490,020
500	Marshall County Healthcare Authority, Alabama, Revenue Bonds, Series 2002A, 6.250%, 1/01/22	1/12 at 101.00	A–	511,175
3,380	Total Alabama			3,382,645
	Arizona – 1.0% (1.1% of Total Investments)			
	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc Prepay Contract Obligations, Series 2007:			
100	5.000%, 12/01/17	No Opt. Call	A	103,698
85	5.250%, 12/01/19	No Opt. Call	A	87,292
35	5.000%, 12/01/32	No Opt. Call	A	30,492
380	5.000%, 12/01/37	No Opt. Call	A	323,722
750	Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007, 4.500%, 4/01/17	4/11 at 100.00	N/R	751,148
1,350	Total Arizona			1,296,352
	Arkansas – 3.2% (3.3% of Total Investments)			
1,500	Jefferson County, Arkansas, Pollution Control Revenue Bonds, Entergy Arkansas Inc. Project, Series 2006, 4.600%, 10/01/17	6/11 at 100.00	A–	1,506,390
1,000	Jonesboro, Arkansas, Industrial Development Revenue Bonds, Anheuser Busch Inc. Project, Series	No Opt. Call	BBB+	1,061,600

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	2002, 4.600%, 11/15/12			
1,380	North Little Rock, Arkansas, Electric Revenue Refunding Bonds, Series 1992A, 6.500%, 7/01/15 – NPFPG Insured	No Opt. Call	Baa1	1,507,084
3,880	Total Arkansas			4,075,074
	California – 2.5% (2.6% of Total Investments)			
400	California Health Facilities Financing Authority, Revenue Bonds, Catholic Healthcare West, Series 2008H, 5.125%, 7/01/22	7/15 at 100.00	A	412,908
500	California State, General Obligation Bonds, Various Purpose Series 2010, 5.500%, 3/01/40	3/20 at 100.00	A1	485,475
1,000	Ceres Unified School District, Stanislaus County, California, General Obligation Bonds, Series 2002B, 0.000%, 8/01/31 – FGIC Insured	8/12 at 32.87	A+	225,890
255	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1, 4.500%, 6/01/27	6/17 at 100.00	BBB–	196,041
	Moulton Niguel Water District, California, Certificates of Participation, Refunding Series 2003:			
250	5.000%, 9/01/21 – AMBAC Insured	No Opt. Call	AA+	263,613
250	5.000%, 9/01/22 – AMBAC Insured	No Opt. Call	AA+	261,235
500	5.000%, 9/01/23 – AMBAC Insured	No Opt. Call	AA+	517,865
2,000	Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/25 – AGC Insured	No Opt. Call	AA+	815,160
5,155	Total California			3,178,187
	Colorado – 12.0% (12.3% of Total Investments)			
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	2,890,165
1,105	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	BBB	1,091,409
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	1,185,892
185	Colorado Housing Finance Authority, Single Family Program Senior Bonds, Series 2000D-2, 6.900%, 4/01/29 (Alternative Minimum Tax)	4/11 at 105.00	AA	196,803
1,025	Denver Health and Hospitals Authority, Colorado, Healthcare Revenue Bonds, Series 2001A, 6.000%, 12/01/23 (Pre-refunded 12/01/11)	12/11 at 100.00	N/R (4)	1,077,183
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	N/R	1,395,427

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1,500	E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2007C-2, 5.000%, 9/01/39 (Mandatory put 9/01/13) – NPDFG Insured	No Opt. Call	Baa1	1,582,110
1,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 – NPDFG Insured	No Opt. Call	Baa1	147,660
70	Northwest Parkway Public Highway Authority, Colorado, Revenue Bonds, Senior Series 2001A, 5.250%, 6/15/41 (Pre-refunded 6/15/11) – AGM Insured	6/11 at 102.00	AA+ (4)	72,755
5,875	Northwest Parkway Public Highway Authority, Colorado, Senior Lien Revenue Bonds, Series 2001B, 0.000%, 6/15/27 (Pre-refunded 6/15/11) – AMBAC Insured	6/11 at 38.04	N/R (4)	2,221,925
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	196,984
2,845	University of Colorado Hospital Authority, Revenue Bonds, Series 2001A, 5.600%, 11/15/21 (Pre-refunded 11/15/11)	11/11 at 100.00	A3 (4)	2,976,098
19,340	Total Colorado			15,034,411
	Connecticut – 1.5% (1.5% of Total Investments)			
	Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A:			
265	5.500%, 1/01/14 (Alternative Minimum Tax)	1/11 at 100.00	BBB	265,697
1,570	5.500%, 1/01/15 (Alternative Minimum Tax)	1/11 at 100.00	BBB	1,571,539
1,835	Total Connecticut			1,837,236
	Florida – 6.3% (6.5% of Total Investments)			
2,400	Deltona, Florida, Utility Systems Water and Sewer Revenue Bonds, Series 2003, 5.250%, 10/01/17 – NPDFG Insured	10/13 at 100.00	A1	2,493,528
	Florida Citizens Property Insurance Corporation, High Risk Account Revenue Bonds, Series 2007A:			
1,000	5.000%, 3/01/15 – NPDFG Insured	No Opt. Call	A+	1,044,970
125	5.000%, 3/01/16 – NPDFG Insured	No Opt. Call	A+	130,154
600	Florida Department of Environmental Protection, Florida Forever Revenue Bonds, Series 2007B, 5.000%, 7/01/19 – NPDFG Insured	7/17 at 101.00	AA–	652,182
30	JEA, Florida, Electric Revenue Certificates, Series 1973-2, 6.800%, 7/01/12 (ETM)	No Opt. Call	AAA	31,675
750	North Sumter County Utility Dependent District, Florida, Utility Revenue Bonds, Series 2010, 5.000%, 10/01/20	No Opt. Call	BBB	739,710
2,000	Orange County, Florida, Tourist Development Tax Revenue Bonds, Series 2005, 5.000%, 10/01/22 – AMBAC Insured	10/15 at 100.00	A+	2,073,520
235	Port Everglades Authority, Florida, Port Facilities Revenue Bonds, Series 1986, 7.125%,	No Opt. Call	AAA	274,398

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	11/01/16 (ETM)			
500	South Miami Health Facilities Authority, Florida, Hospital Revenue, Baptist Health System	8/17 at 100.00	AA	501,090
	Obligation Group, Series 2007, 5.000%, 8/15/27			
7,640	Total Florida			7,941,227
	Georgia – 0.3% (0.4% of Total Investments)			
380	Cherokee County Water and Sewerage Authority, Georgia, Revenue Bonds, Series 1995, 5.200%, 8/01/25 (Pre-refunded 8/01/22) – NPFQ Insured	8/22 at 100.00	BBB (4)	428,895
	Idaho – 0.1% (0.1% of Total Investments)			
100	Madison County, Idaho, Hospital Revenue Certificates of Participation, Madison Memorial Hospital, Series 2006, 5.250%, 9/01/37	9/16 at 100.00	BBB–	81,447
	Illinois – 13.6% (13.9% of Total Investments)			
440	Chicago, Illinois, Tax Increment Allocation Bonds, Irving/Cicero Redevelopment Project, Series 1998, 7.000%, 1/01/14	1/11 at 100.00	N/R	440,453
1,500	Cook County Township High School District 208, Illinois, General Obligation Bonds, Series 2006, 5.000%, 12/01/21 – NPFQ Insured	12/15 at 100.00	Aa3	1,580,130
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+	2,005,320
4,760	Illinois Development Finance Authority, GNMA Collateralized Mortgage Revenue Bonds, Greek American Nursing Home Committee, Series 2000A, 7.600%, 4/20/40	4/11 at 105.00	Aaa	5,083,344
2,000	Illinois Educational Facilities Authority, Revenue Bonds, Art Institute of Chicago, Series 2000, 4.450%, 3/01/34 (Mandatory put 3/01/15)	3/14 at 102.00	A+	2,103,500
1,000	Illinois Educational Facilities Authority, Student Housing Revenue Bonds, Educational Advancement Foundation Fund, University Center Project, Series 2002, 6.625%, 5/01/17 (Pre-refunded 5/01/12)	5/12 at 101.00	Aaa	1,089,410
250	Illinois Finance Authority, Revenue Bonds, Roosevelt University, Series 2007, 5.250%, 4/01/22	4/17 at 100.00	Baa2	234,795
20	Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2002, 5.250%, 5/15/12 (ETM)	No Opt. Call	Aaa	21,218
50	Illinois Health Facilities Authority, Revenue Bonds, Lutheran General Health System, Series 1993A, 6.125%, 4/01/12 – AGM Insured (ETM)	No Opt. Call	AA+ (4)	51,818
695	Illinois Health Facilities Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 1999, 5.500%, 8/15/19	2/11 at 100.50	BBB	696,133
50	Illinois State, General Obligation Bonds, Refunding Series 2006, 5.000%, 1/01/15	No Opt. Call	A+	52,567
130	Illinois State, General Obligation Bonds, Refunding Series 2007B, 5.000%, 1/01/16	No Opt. Call	A+	136,439
195			A+	197,767

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	Illinois State, General Obligation Bonds, Refunding Series 2008, 4.250%, 4/01/16	No Opt. Call		
1,165	Illinois State, General Obligation Bonds, Refunding Series 2010, 5.000%, 1/01/19	No Opt. Call	A+	1,154,410
25	Illinois State, General Obligation Bonds, Series 2007A, 5.500%, 6/01/15	No Opt. Call	A+	26,829
275	Illinois, General Obligation Bonds, Illinois FIRST Program, Series 2002, 5.250%, 12/01/19 – AGM Insured	12/12 at 100.00	AA+	275,487
1,355	Kane & DeKalb Counties, Illinois, Community United School District 301, General Obligation Bonds, Series 2006, 0.000%, 12/01/18 – NPMFG Insured	No Opt. Call	A1	952,362
55	Metropolitan Pier and Exposition Authority, Illinois, Dedicated State Tax Revenue Bonds, Series 2002, 5.375%, 6/01/15 – FGIC Insured	6/13 at 100.00	AAA	58,925
700	Regional Transportation Authority, Cook, DuPage, Kane, Lake, McHenry and Will Counties, Illinois, General Obligation Bonds, Series 1994D, 7.750%, 6/01/19 – FGIC Insured	No Opt. Call	AA	857,892
16,665	Total Illinois Indiana – 0.4% (0.4% of Total Investments)			17,018,799
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	BBB–	246,860
250	Jasper County, Indiana, Pollution Control Revenue Refunding Bonds, Northern Indiana Public Service Company Project, Series 1994A Remarketed, 5.850%, 4/01/19 – NPMFG Insured	No Opt. Call	Baa1	272,648
500	Total Indiana Iowa – 1.2% (1.3% of Total Investments)			519,508
1,520	Iowa Tobacco Settlement Authority, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2001B, 5.300%, 6/01/25 (Pre-refunded 6/01/11)	6/11 at 101.00	AAA	1,563,791
3,500	Kansas – 3.2% (3.3% of Total Investments) Wichita, Kansas, Hospital Facilities Revenue Refunding and Improvement Bonds, Via Christi Health System Inc., Series 2001-III, 5.500%, 11/15/21	11/11 at 101.00	A+	3,561,354
245	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	N/R	246,580
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	197,447
4,115	Total Kansas Kentucky – 0.9% (0.9% of Total Investments)			4,005,381
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+	337,591

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790	Kentucky Housing Corporation, Housing Revenue Bonds, Series 2005G, 5.000%, 7/01/30 (Alternative Minimum Tax)	1/15 at 100.60	AAA	805,136
1,115	Total Kentucky Louisiana – 1.4% (1.4% of Total Investments)			1,142,727
1,010	Louisiana Public Facilities Authority, Revenue Bonds, Baton Rouge General Hospital, Series 2004, 5.250%, 7/01/24 – NPFPG Insured Tobacco Settlement Financing Corporation, Louisiana, Tobacco Settlement Asset-Backed Bonds, Series 2001B:	7/14 at 100.00	Baa1	1,016,403
510	5.500%, 5/15/30	5/11 at 101.00	A	504,574
245	5.875%, 5/15/39	5/11 at 101.00	A–	235,038
1,765	Total Louisiana Maryland – 0.9% (0.9% of Total Investments)			1,756,015
1,100	Maryland Energy Financing Administration, Revenue Bonds, AES Warrior Run Project, Series 1995, 7.400%, 9/01/19 (Alternative Minimum Tax)	3/11 at 100.00	N/R	1,099,989
500	Massachusetts – 0.7% (0.7% of Total Investments) Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.000%, 10/01/19	10/17 at 100.00	N/R	445,270
	Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A:			
100	5.200%, 1/01/20 – AMBAC Insured (Alternative Minimum Tax)	1/11 at 101.00	N/R	86,859
470	5.000%, 1/01/27 – AMBAC Insured (Alternative Minimum Tax)	1/11 at 101.00	N/R	368,489
1,070	Total Massachusetts Michigan – 1.6% (1.6% of Total Investments)			900,618
1,000	Cornell Township Economic Development Corporation, Michigan, Environmental Improvement Revenue Refunding Bonds, MeadWestvaco Corporation-Escanaba Project, Series 2002, 5.875%, 5/01/18 (Pre-refunded 5/01/12)	5/12 at 100.00	AAA	1,065,940
360	Michigan State Hospital Finance Authority, Hospital Revenue Refunding Bonds, Sinai Hospital, Series 1995, 6.625%, 1/01/16 (Pre-refunded 1/31/11)	1/11 at 100.00	BB	356,767
500	Wayne County Airport Authority, Michigan, Revenue Bonds, Detroit Metropolitan Airport, Refunding Series 2010C, 5.000%, 12/01/16 (WI/DD, Settling 1/03/11)	No Opt. Call	A	537,295
1,860	Total Michigan Minnesota – 1.4% (1.4% of Total Investments)			1,960,002
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	1,229,316
250			AA+	275,053

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	Northern Municipal Power Agency, Minnesota, Electric System Revenue Bonds, Refunding Series 2009A, 5.000%, 1/01/15 – AGC Insured	No Opt. Call		
230	White Earth Band of Chippewa Indians, Minnesota, Revenue Bonds, Series 2000A, 7.000%, 12/01/11 – ACA Insured	No Opt. Call	N/R	235,674
1,580	Total Minnesota Mississippi – 0.6% (0.6% of Total Investments) Mississippi Hospital Equipment and Facilities Authority, Revenue Bonds, Baptist Memorial Healthcare, Series 2004B-1:			1,740,043
200	5.000%, 9/01/16	No Opt. Call	AA	214,286
300	5.000%, 9/01/24	9/14 at 100.00	AA	303,180
250	Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company, Series 2006A, 4.800%, 8/01/30	8/11 at 100.00	BBB	218,883
750	Total Mississippi Missouri – 0.3% (0.3% of Total Investments) St. Louis County, Missouri, GNMA Collateralized Mortgage Revenue Bonds, Series 1989A, 8.125%, 8/01/20 (Pre-refunded 7/01/20) (Alternative Minimum Tax)			736,349
250	Montana – 0.1% (0.1% of Total Investments) University of Montana, Revenue Bonds, Series 1996D, 5.375%, 5/15/19 – NPFG Insured (ETM)	7/20 at 100.00	AAA	321,428
90	Nebraska – 0.9% (0.9% of Total Investments) Dodge County School District 1, Nebraska, Fremont Public Schools, General Obligation Bonds, Series 2004, 5.000%, 12/15/19 – AGM Insured	5/11 at 100.00	BBB (4)	103,988
1,000	Nevada – 1.2% (1.2% of Total Investments) Clark County, Nevada, Airport Revenue Bonds, Subordinte Lien Series 2010B, 5.750%, 7/01/42	12/14 at 100.00	Aa3	1,086,000
1,000	Director of Nevada State Department of Business and Industry, Revenue Bonds, Las Vegas Monorail Project, First Tier, Series 2000:	1/20 at 100.00	Aa3	1,023,970
800	0.000%, 1/01/15 – AMBAC Insured	No Opt. Call	D	126,688
35	0.000%, 1/01/16 – AMBAC Insured	No Opt. Call	D	5,213
120	0.000%, 1/01/18 – AMBAC Insured	No Opt. Call	D	15,847
50	0.000%, 1/01/20 – AMBAC Insured	No Opt. Call	D	5,851
250	Las Vegas Redevelopment Agency, Nevada, Tax Increment Revenue Bonds, Series 2009A, 8.000%, 6/15/30	6/19 at 100.00	A	277,868
2,255	Total Nevada New Jersey – 2.2% (2.3% of Total Investments) Bayonne Redevelopment Agency, New Jersey, Revenue Bonds, Royal Caribbean Cruises Project,			1,455,437
360		No Opt. Call	BB	325,721

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Series 2006A, 4.750%, 11/01/16 (Alternative Minimum Tax)  
 New Jersey Economic Development Authority, Cigarette Tax  
 Revenue Bonds, Series 2004:

150	5.375%, 6/15/14	No Opt. Call	BBB	155,807
15	5.375%, 6/15/15 – RAAI Insured	No Opt. Call	Baa3	15,610
25	5.500%, 6/15/16 – RAAI Insured	No Opt. Call	Baa3	26,001
1,730	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Capital Appreciation Series 2010A, 0.000%, 12/15/33	No Opt. Call	AA–	381,949
1,500	New Jersey Transportation Trust Fund Authority, Transportation System Bonds, Series 2010D, 5.000%, 12/15/23	No Opt. Call	AA–	1,546,650
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	BBB	364,701
4,205	Total New Jersey New York – 6.2% (6.3% of Total Investments)			2,816,439
220	Brooklyn Areba 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–	219,993
1,000	Dormitory Authority of the State of New York, Revenue Bonds, Brooklyn Law School, Series 2003A, 5.500%, 7/01/15 – RAAI Insured	7/13 at 100.00	BBB+	1,074,910
170	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	166,622
20	New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003A-1: 5.500%, 6/01/14	6/11 at 100.00	AA–	20,071
250	5.250%, 6/01/20 – AMBAC Insured	6/13 at 100.00	AA–	266,153
590	5.250%, 6/01/22 – AMBAC Insured New York State Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed and State Contingency Contract-Backed Bonds, Series 2003B-1C:	6/13 at 100.00	AA–	607,753
500	5.500%, 6/01/21	6/13 at 100.00	AA–	527,805
300	5.500%, 6/01/22	6/13 at 100.00	AA–	315,795
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 – NPFPG Insured (Alternative Minimum Tax)	No Opt. Call	Baa1	4,538,004
7,350	Total New York North Carolina – 1.6% (1.7% of Total Investments)			7,737,106

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1,880	Union County, North Carolina, Certificates of Participation, Series 2003, 5.000%, 6/01/18 – AMBAC Insured	6/13 at 101.00	Aa2	2,014,664
	Ohio – 1.3% (1.4% of Total Investments)			
770	Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue Bonds, Senior Lien, Series 2007A-2, 5.125%, 6/01/24	6/17 at 100.00	Baa3	595,118
1,000	Toledo-Lucas County Port Authority, Ohio, Port Revenue Bonds, Cargill Inc., Series 2004B, 4.500%, 12/01/15	No Opt. Call	A	1,056,820
1,770	Total Ohio			1,651,938
	Pennsylvania – 7.4% (7.6% of Total Investments)			
200	Luzerne County Industrial Development Authority, Pennsylvania, Guaranteed Lease Revenue Bonds, Series 2009, 7.750%, 12/15/27	12/19 at 100.00	N/R	193,916
770	Pennsylvania Higher Educational Facilities Authority, College Revenue Bonds, Ninth Series 1976, 7.625%, 7/01/15 (ETM)	No Opt. Call	Aaa	877,223
225	Pennsylvania Higher Educational Facilities Authority, Revenue Bonds, University of the Arts, Series 1999, 5.150%, 3/15/20 – RAAI Insured (ETM)	3/11 at 100.00	A+ (4)	248,821
580	Pennsylvania Turnpike Commission, Motor License Fund-Enhanced Subordinate Special Revenue Bonds, Series 2010A-2, 0.000%, 12/01/34	No Opt. Call	AA	413,905
4,120	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Eighteenth Series 2004, 5.000%, 8/01/15 – AMBAC Insured	8/14 at 100.00	BBB+	4,380,589
1,435	Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Twelfth Series 1990B, 7.000%, 5/15/20 – NPPG Insured (ETM)	No Opt. Call	Aaa	1,762,080
250	Philadelphia Hospitals and Higher Education Facilities Authority, Pennsylvania, Hospital Revenue Bonds, Temple University Hospital, Series 1993A, 6.625%, 11/15/23	5/11 at 100.00	BBB	250,135
1,085	Pittsburgh School District, Allegheny County, Pennsylvania, General Obligation Bonds, Series 2006B, 5.000%, 9/01/12 – AMBAC Insured	No Opt. Call	Aa3	1,154,603
8,665	Total Pennsylvania			9,281,272
	Puerto Rico – 0.6% (0.6% of Total Investments)			
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+	789,540
	Rhode Island – 0.7% (0.7% of Total Investments)			
	Rhode Island Tobacco Settlement Financing Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2002A:			
255	6.125%, 6/01/32	6/12 at 100.00	BBB	250,071
725	6.250%, 6/01/42	6/12 at 100.00	BBB	653,682
980	Total Rhode Island			903,753

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South Carolina – 5.1% (5.2% of Total Investments)				
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	785,940
1,540	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured (ETM)	No Opt. Call	AAA	1,936,180
2,835	Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%, 1/01/19 – FGIC Insured	No Opt. Call	Baa1	3,390,007
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)	5,444
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–	19,963
195	Tobacco Settlement Revenue Management Authority, South Carolina, Tobacco Settlement Asset-Backed Bonds, Series 2001B, 6.000%, 5/15/22 (Pre-refunded 5/15/11)	5/11 at 101.00	BBB (4)	199,506
5,345	Total South Carolina			6,337,040
South Dakota – 0.8% (0.8% of Total Investments)				
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–	967,870
Tennessee – 2.1% (2.1% of Total Investments)				
750	Shelby County Health, Educational and Housing Facilities Board, Tennessee, Hospital Revenue Bonds, Methodist Healthcare, Series 2002: 6.000%, 9/01/17 (Pre-refunded 9/01/12)	9/12 at 100.00	AAA	815,490
1,250	The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006A, 5.000%, 9/01/13	9/12 at 100.00	AAA	1,359,150
400	Total Tennessee	No Opt. Call	Ba3	423,780
2,400				2,598,420
Texas – 6.7% (6.8% of Total Investments)				
1,055	Austin, Texas, General Obligation Bonds, Series 2004, 5.000%, 9/01/20 – NPMF Insured	9/14 at 100.00	AAA	1,134,737
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	586,628
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	CCC–	8,397
2,000	Brazos River Authority, Texas, Collateralized Revenue Refunding Bonds, CenterPoint Energy	6/14 at 100.00	A3	2,010,180

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	Inc., Series 2004B, 4.250%, 12/01/17 – FGIC Insured			
500	Brazos River Authority, Texas, Pollution Control Revenue Refunding Bonds, TXU Electric Company, Series 2001C, 5.750%, 5/01/36 (Mandatory put 11/01/11) (Alternative Minimum Tax)	No Opt. Call	CCC	466,120
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	CCC–	10,706
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	2,024,888
300	Kerrville Health Facilities Development Corporation, Texas, Revenue Bonds, Sid Peterson Memorial Hospital Project, Series 2005, 5.125%, 8/15/26	No Opt. Call	BBB–	268,113
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	179,778
325	North Texas Tollway Authority, Second Tier System Revenue Refunding Bonds, Series 2008F, 5.750%, 1/01/38	1/18 at 100.00	A3	307,574
25	Sabine River Authority, Texas, Pollution Control Revenue Bonds, TXU Energy Company LLC Project, Series 2001B, 5.750%, 5/01/30 (Mandatory put 11/01/11) (Alternative Minimum Tax)	No Opt. Call	CCC	23,306
1,350	Texas Municipal Gas Acquisition and Supply Corporation I, Gas Supply Revenue Bonds, Series 2006B, 0.752%, 12/15/17	1/11 at 100.00	A	1,201,311
145	Weslaco Health Facilities Development Corporation, Texas, Hospital Revenue Bonds, Knapp Medical Center, Series 2002, 6.000%, 6/01/17 (Pre-refunded 6/01/12)	6/12 at 100.00	N/R (4)	152,386
8,380	Total Texas			8,374,124
	Virgin Islands – 0.4% (0.4% of Total Investments)			
525	Virgin Islands Public Finance Authority, Matching Fund Loan Notes Revenue Bonds, Senior Lien Series 2010A, 5.000%, 10/01/29	10/20 at 100.00	BBB	490,985
	Virginia – 0.2% (0.2% of Total Investments)			
250	Virginia College Building Authority, Educational Facilities Revenue Refunding Bonds, Marymount University, Series 1998, 5.100%, 7/01/18 – RAAI Insured	1/11 at 100.00	N/R	250,093
	Washington – 0.7% (0.7% of Total Investments)			
295	Washington Public Power Supply System, Revenue Refunding Bonds, Nuclear Project 3, Series 1989B, 7.125%, 7/01/16 – NPFPG Insured	No Opt. Call	Aaa	367,192
520	Washington State Tobacco Settlement Authority, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2002, 6.500%, 6/01/26	6/13 at 100.00	BBB	526,396
815	Total Washington			893,588
	Wisconsin – 3.7% (3.7% of Total Investments)			

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Badger Tobacco Asset Securitization Corporation, Wisconsin,  
Tobacco Settlement Asset-Backed  
Bonds, Series 2002:

465	6.125%, 6/01/27 (Pre-refunded 6/01/12)	6/12 at 100.00	AAA	490,733
1,480	6.375%, 6/01/32 (Pre-refunded 6/01/12)	6/12 at 100.00	AAA	1,593,531
1,000	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Agnesian Healthcare Inc., Series 2001, 6.000%, 7/01/21 (Pre-refunded 7/01/11)	7/11 at 100.00	A- (4)	1,027,610
1,105	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Aurora Health Care Inc., Series 1999A, 5.500%, 2/15/20 – ACA Insured	2/11 at 100.00	A3	1,105,033
	Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Wheaton Franciscan Healthcare System, Series 2006:			
200	5.250%, 8/15/18	8/16 at 100.00	BBB+	206,366
180	5.250%, 8/15/34	8/16 at 100.00	BBB+	158,319
4,430	Total Wisconsin			4,581,592
\$				
127,690	Total Investments (cost \$120,715,977) – 97.7%			122,353,973
	Other Assets Less Liabilities – 2.3%			2,850,209
				\$
	Net Assets – 100%			125,204,182

Fair Value Measurements

In determining the fair value of the Fund’s investments, various inputs are used. These inputs are summarized in the three broad levels listed below:

Level 1 – Quoted prices in active markets for identical securities.

Level 2 – Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3 – 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 risk associated with investing in those securities. The following is a summary of the Fund’s fair value measurements as of December 31, 2010:

	Level 1	Level 2	Level 3	Total
Investments:				
Municipal Bonds	\$ —	\$122,353,973	\$ —	\$122,353,973

During the period ended December 31, 2010, the Fund recognized no significant transfers to/from Level 1, Level 2, or Level 3.

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 December 31, 2010, the cost of investments was \$120,582,215.

Gross unrealized appreciation and gross unrealized depreciation of investments at December 31, 2010, were as follows:

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Gross unrealized:	
Appreciation	\$ 3,835,854
Depreciation	(2,064,096)
Net unrealized appreciation (depreciation) of investments	\$ 1,771,758

- (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.  
Ratings: Using the highest of Standard & Poor's Group ("Standard & Poor's"), Moody's Investor 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. Such investments are normally considered to be equivalent to AAA rated securities.
- N/R Not rated.  
WI/DD Purchased on a when-issued or delayed delivery basis.  
(ETM) Escrowed to maturity.
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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.

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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 March 1, 2011

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 March 1, 2011

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

Date March 1, 2011