

NUVEEN SELECT MATURITIES MUNICIPAL FUND
Form N-Q
February 27, 2009

**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: 03/31

Date of reporting period: 12/31/08

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.

Item 1. Schedule of Investments

Portfolio of Investments (Unaudited)

Nuveen Select Maturities Municipal Fund (NIM)

December 31, 2008

Principal

Amount (000) Description (1)

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Alabama □ **2.3%**

| | | |
|----|-------|--|
| \$ | 2,000 | Alabama 21st Century Authority, Tobacco Settlement Revenue Bonds, Series 2001, 5.750%, 12/01/17 |
| | 500 | Jefferson County, Alabama, Sewer Revenue Refunding Warrants, Series 2003B, 5.250%, 2/01/12 □ FSA Insured |
| | 500 | Marshall County Healthcare Authority, Alabama, Revenue Bonds, Series 2002A, 6.250%, 1/01/22 |

3,000 Total Alabama

Arizona □ **0.8%**

| | | |
|--|-----|---|
| | 125 | Phoenix Industrial Development Authority, Arizona, Statewide Single Family Mortgage Revenue Bonds, Series 1998C, 6.650%, 10/01/29 (Alternative Minimum Tax) |
| | 300 | Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Series 2007, 5.000%, 12/01/37 |
| | 750 | Surprise Municipal Property Corporation, Arizona, Wastewater System Revenue Bonds, Series 2007, 4.500%, 4/01/17 |

1,175 Total Arizona

Arkansas □ **4.3%**

| | | |
|--|-------|--|
| | 1,000 | Fort Smith, Arkansas, Water and Sewer Revenue Refunding and Construction Bonds, Series 2002A, 5.250%, 10/01/17 □ FSA Insured |
| | 1,500 | Jefferson County, Arkansas, Pollution Control Revenue Bonds, Entergy Arkansas Inc. Project, Series 2006, 4.600%, 10/01/17 |
| | 1,000 | Jonesboro, Arkansas, Industrial Development Revenue Bonds, Anheuser Busch Inc. Project, Series 2002, 4.600%, 11/15/12 |
| | 1,380 | North Little Rock, Arkansas, Electric Revenue Refunding Bonds, Series 1992A, 6.500%, 7/01/15 □ MBIA Insured |

4,880 Total Arkansas

California □ **0.3%**

| | | |
|--|-----|--|
| | 400 | California Health Facilities Financing Authority, Revenue Bonds, Catholic Healthcare West, Series 2008H, 5.125%, 7/01/22 |
|--|-----|--|

Colorado □ **13.2%**

| | | |
|--|-------|--|
| | 2,895 | Centennial Downs Metropolitan District, Colorado, General Obligation Bonds, Series 1999, 5.000%, 12/01/20 □ AMBAC Insured |
| | 1,230 | 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 |
| | 1,175 | Colorado Educational and Cultural Facilities Authority, Revenue Bonds, Classical Academy Charter School, Series 2003, 4.500%, 12/01/18 □ SYNCORA GTY Insured |
| | 275 | Colorado Housing Finance Authority, Single Family Program Senior Bonds, Series 2000D-2, 6.900%, 4/01/29 (Alternative Minimum Tax) |
| | 1,025 | Denver Health and Hospitals Authority, Colorado, Healthcare Revenue Bonds, Series 2001A, 6.000%, 12/01/23 (Pre-refunded 12/01/11) |
| | 1,465 | Denver West Metropolitan District, Colorado, General Obligation Refunding and Improvement Bonds, Series 2003, 4.500%, 12/01/18 □ RAAI Insured |
| | 1,500 | E-470 Public Highway Authority, Colorado, Senior Revenue Bonds, Series 2007C-2, 5.000%, 9/01/39 (Mandatory put 9/01/13) □ MBIA Insured |

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| | |
|-------|---|
| 1,000 | E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 ☐ MBIA Insured |
| 28 | El Paso County, Colorado, FNMA Mortgage-Backed Single Family Revenue Refunding Bonds, Series 1992A-2, 8.750%, 6/01/11 |
| 1,050 | Erie, Boulder and Weld Counties, Colorado, Water Enterprise Revenue Bonds, Series 1998, 5.000%, 12/01/23 ☐ ACA Insured |
| 70 | Northwest Parkway Public Highway Authority, Colorado, Revenue Bonds, Senior Series 2001A, 5.250%, 6/15/41 (Pre-refunded 6/15/11) ☐ FSA Insured |
| 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 |
| 2,845 | University of Colorado Hospital Authority, Revenue Bonds, Series 2001A, 5.600%, 11/15/21 (Pre-refunded 11/15/11) |

20,433 Total Colorado

Connecticut ☐ 1.4%

| | |
|-------|--|
| | Eastern Connecticut Resource Recovery Authority, Solid Waste Revenue Bonds, Wheelabrator Lisbon Project, Series 1993A: |
| 395 | 5.500%, 1/01/14 (Alternative Minimum Tax) |
| 1,570 | 5.500%, 1/01/15 (Alternative Minimum Tax) |

1,965 Total Connecticut

Florida ☐ 4.9%

| | |
|-------|--|
| 2,400 | Deltona, Florida, Utility Systems Water and Sewer Revenue Bonds, Series 2003, 5.250%, 10/01/17 ☐ MBIA Insured |
| 1,000 | Florida Citizens Property Insurance Corporation, High Risk Account Revenue Bonds, Series 2007A, 5.000%, 3/01/15 ☐ MBIA Insured |
| 60 | JEA, Florida, Electric Revenue Certificates, Series 1973-2, 6.800%, 7/01/12 (ETM) |
| 2,000 | Orange County, Florida, Tourist Development Tax Revenue Bonds, Series 2005, 5.000%, 10/01/22 ☐ AMBAC Insured |
| 295 | Port Everglades Authority, Florida, Port Facilities Revenue Bonds, Series 1986, 7.125%, 11/01/16 (ETM) |

5,755 Total Florida

Georgia ☐ 0.4%

| | |
|-----|--|
| 425 | Cherokee County Water and Sewerage Authority, Georgia, Revenue Bonds, Series 1995, 5.200%, 8/01/25 (Pre-refunded 8/01/22) ☐ MBIA Insured |
|-----|--|

Illinois ☐ 15.2%

| | |
|-------|---|
| 635 | Chicago, Illinois, Tax Increment Allocation Bonds, Irving/Cicero Redevelopment Project, Series 1998, 7.000%, 1/01/14 |
| 1,500 | Cook County Township High School District 208, Illinois, General Obligation Bonds, Series 2006, 5.000%, 12/01/21 ☐ MBIA Insured |
| 2,000 | Huntley, Illinois, Special Service Area 9, Special Tax Bonds, Series 2007, 5.100%, 3/01/28 ☐ AGC Insured |
| 4,840 | Illinois Development Finance Authority, GNMA Collateralized Mortgage Revenue Bonds, Greek |

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| | |
|-------|---|
| | American Nursing Home Committee, Series 2000A, 7.600%, 4/20/40 |
| 2,000 | Illinois Development Finance Authority, Revenue Refunding Bonds, Olin Corporation, Series 1993D, 6.750%, 3/01/16 |
| 2,000 | Illinois Educational Facilities Authority, Revenue Bonds, Art Institute of Chicago, Series 2000, 4.450%, 3/01/34 (Mandatory put 3/01/15) |
| 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) |
| 250 | Illinois Finance Authority, Revenue Bonds, Roosevelt University, Series 2007, 5.250%, 4/01/22 |
| 25 | Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2000, 6.350%, 5/15/15 |
| | Illinois Health Facilities Authority, Revenue Bonds, Condell Medical Center, Series 2002: |
| 100 | 5.250%, 5/15/11 |
| 20 | 5.250%, 5/15/12 |
| 85 | Illinois Health Facilities Authority, Revenue Bonds, Lutheran General Health System, Series 1993A, 6.125%, 4/01/12 ☐ FSA Insured (ETM) |
| 695 | Illinois Health Facilities Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 1999, 5.500%, 8/15/19 |
| 515 | Illinois Health Facilities Authority, Revenue Bonds, Silver Cross Hospital and Medical Centers, Series 1999, 5.500%, 8/15/19 (Pre-refunded 8/15/09) |
| 1,355 | Kane & DeKalb Counties, Illinois, Community United School District 301, General Obligation Bonds, Series 2006, 0.000%, 12/01/18 ☐ MBIA Insured |
| 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 |

17,720 Total Illinois

Indiana ☐ 0.2%

| | |
|-----|---|
| 250 | Jasper County, Indiana, Pollution Control Revenue Refunding Bonds, Northern Indiana Public Service Company Project, Series 1994A Remarketed, 5.850%, 4/01/19 ☐ MBIA Insured |
|-----|---|

Iowa ☐ 2.5%

| | |
|-------|--|
| 1,000 | Iowa Finance Authority, Healthcare Revenue Bonds, Genesis Medical Center, Series 2000, 6.250%, 7/01/25 |
| 1,800 | Iowa Tobacco Settlement Authority, Tobacco Settlement Asset-Backed Revenue Bonds, Series 2001B, 5.300%, 6/01/25 (Pre-refunded 6/01/11) |

2,800 Total Iowa

Kansas ☐ 2.9%

| | |
|-------|--|
| 3,500 | Wichita, Kansas, Hospital Facilities Revenue Refunding and Improvement Bonds, Via Christi Health System Inc., Series 2001-III, 5.500%, 11/15/21 |
| 250 | Wyandotte County-Kansas City Unified Government, Kansas, Sales Tax Special Obligation Bonds, Redevelopment Project Area B, Series 2005, 5.000%, 12/01/20 |

3,750 Total Kansas

Kentucky ☐ 1.4%

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- 325 Kentucky Economic Development Finance Authority, Louisville Arena Project Revenue Bonds, Louisville Arena Authority, Inc., Series 2008A-1, 5.750%, 12/01/28 ☐ AGC Insured
- 1,360 Kentucky Housing Corporation, Housing Revenue Bonds, Series 2005G, 5.000%, 7/01/30 (Alternative Minimum Tax)

1,685 Total Kentucky

Louisiana ☐ 0.7%

- 1,010 Louisiana Public Facilities Authority, Revenue Bonds, Baton Rouge General Hospital, Series 2004, 5.250%, 7/01/24 ☐ MBIA Insured

Maryland ☐ 0.7%

- 1,100 Maryland Energy Financing Administration, Revenue Bonds, AES Warrior Run Project, Series 1995, 7.400%, 9/01/19 (Alternative Minimum Tax)

Massachusetts ☐ 1.8%

- 500 Massachusetts Development Finance Agency, Revenue Bonds, Orchard Cove, Series 2007, 5.000%, 10/01/19
- 1,450 Massachusetts Housing Finance Agency, Rental Housing Mortgage Revenue Bonds, Series 2000H, 6.650%, 7/01/41 ☐ MBIA Insured (Alternative Minimum Tax)
- Massachusetts Port Authority, Special Facilities Revenue Bonds, Delta Air Lines Inc., Series 2001A:
- 100 5.200%, 1/01/20 ☐ AMBAC Insured (Alternative Minimum Tax)
- 435 5.000%, 1/01/27 ☐ AMBAC Insured (Alternative Minimum Tax)

2,485 Total Massachusetts

Michigan ☐ 1.7%

- 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)
- 525 Michigan State Hospital Finance Authority, Hospital Revenue Refunding Bonds, Sinai Hospital, Series 1995, 6.625%, 1/01/16
- 470 Michigan State Hospital Finance Authority, Revenue Refunding Bonds, Detroit Medical Center, Series 1988A, 8.125%, 8/15/12

1,995 Total Michigan

Minnesota ☐ 1.5%

- 1,000 Becker, Minnesota, Pollution Control Revenue Bonds, Northern States Power Company, Series 1993A, 8.500%, 9/01/19
- 640 White Earth Band of Chippewa Indians, Minnesota, Revenue Bonds, Series 2000A, 7.000%, 12/01/11 ☐ ACA Insured

1,640 Total Minnesota

Mississippi ☐ 0.8%

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Mississippi Hospital Equipment and Facilities Authority, Revenue Bonds, Baptist Memorial Healthcare, Series 2004B-1:

485 5.000%, 9/01/16

300 5.000%, 9/01/24

250 Warren County, Mississippi, Gulf Opportunity Zone Revenue Bonds, International Paper Company, Series 2006A, 4.800%, 8/01/30

1,035 Total Mississippi

Montana □ 0.1%

60 University of Montana, Revenue Bonds, Series 1996D, 5.375%, 5/15/19 □ MBIA Insured (ETM)

Nebraska □ 0.9%

1,000 Dodge County School District 1, Nebraska, Fremont Public Schools, General Obligation Bonds, Series 2004, 5.000%, 12/15/19 □ FSA Insured

30 NebHelp Inc., Nebraska, Senior Subordinate Bonds, Student Loan Program, Series 1993A-5B, 6.250%, 6/01/18 □ MBIA Insured (Alternative Minimum Tax)

1,030 Total Nebraska

Nevada □ 0.4%

Director of Nevada State Department of Business and Industry, Revenue Bonds, Las Vegas Monorail Project, First Tier, Series 2000:

800 0.000%, 1/01/15 □ AMBAC Insured

35 0.000%, 1/01/16 □ AMBAC Insured

120 0.000%, 1/01/18 □ AMBAC Insured

50 0.000%, 1/01/20 □ AMBAC Insured

1,005 Total Nevada

New Jersey □ 0.6%

455 Bayonne Redevelopment Agency, New Jersey, Revenue Bonds, Royal Caribbean Cruises Project, Series 2006A, 4.750%, 11/01/16 (Alternative Minimum Tax)

500 Tobacco Settlement Financing Corporation, New Jersey, Tobacco Settlement Asset-Backed Bonds, Series 2007-1A, 4.500%, 6/01/23

955 Total New Jersey

New York □ 6.1%

1,000 Dormitory Authority of the State of New York, Revenue Bonds, Brooklyn Law School, Series 2003A, 5.500%, 7/01/15 □ RAAI Insured

300 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

1,500 New York State Energy Research and Development Authority, Facilities Revenue Bonds, Consolidated Edison Company Inc., Series 2001A, 4.700%, 6/01/36 (Mandatory put 10/01/12) (Alternative Minimum Tax)

60 New York State Medical Care Facilities Finance Agency, FHA-Insured Mortgage Hospital and

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Nursing Home Revenue Bonds, Series 1995C, 6.100%, 8/15/15
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 ☐ MBIA Insured (Alternative
Minimum Tax)

7,160 Total New York

North Carolina ☐ 1.7%

1,880 Union County, North Carolina, Certificates of Participation, Series 2003, 5.000%, 6/01/18 ☐
AMBAC Insured

Ohio ☐ 1.3%

835 Buckeye Tobacco Settlement Financing Authority, Ohio, Tobacco Settlement Asset-Backed Revenue
Bonds, Senior Lien, Series 2007A-2, 5.125%, 6/01/24
1,000 Toledo-Lucas County Port Authority, Ohio, Port Revenue Bonds, Cargill Inc., Series 2004B,
4.500%, 12/01/15

1,835 Total Ohio

Pennsylvania ☐ 7.5%

1,010 Pennsylvania Higher Educational Facilities Authority, College Revenue Bonds, Ninth Series
1976, 7.625%, 7/01/15 (ETM)
225 Pennsylvania Higher Educational Facilities Authority, Revenue Bonds, University of the Arts,
Series 1999, 5.150%, 3/15/20 ☐ RAAI Insured (ETM)
4,120 Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Eighteenth Series 2004, 5.000%, 8/01/15 ☐
AMBAC Insured
1,605 Philadelphia Gas Works, Pennsylvania, Revenue Bonds, Twelfth Series 1990B, 7.000%, 5/15/20 ☐
MBIA Insured (ETM)
250 Philadelphia Hospitals and Higher Education Facilities Authority, Pennsylvania, Hospital
Revenue Bonds, Temple University Hospital, Series 1993A, 6.625%, 11/15/23
1,085 Pittsburgh School District, Allegheny County, Pennsylvania, General Obligation Bonds, Series
2006B, 5.000%, 9/01/12 ☐ AMBAC Insured

8,295 Total Pennsylvania

South Carolina ☐ 6.2%

750 Berkeley County School District, South Carolina, Installment Purchase Revenue Bonds, Securing
Assets for Education, Series 2003, 5.250%, 12/01/19
1,540 Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%,
1/01/19 ☐ FGIC Insured (ETM)
2,835 Piedmont Municipal Power Agency, South Carolina, Electric Revenue Bonds, Series 1991, 6.750%,
1/01/19 ☐ FGIC Insured
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)
20 South Carolina JOBS Economic Development Authority, Economic Development Revenue Bonds, Bon
Secours Health System Inc., Series 2002B, 5.625%, 11/15/30
865 South Carolina JOBS Economic Development Authority, Hospital Revenue Bonds, Palmetto Health
Alliance, Series 2000A, 7.000%, 12/15/10 (ETM)

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445 Tobacco Settlement Revenue Management Authority, South Carolina, Tobacco Settlement Asset-Backed Bonds, Series 2001B, 6.000%, 5/15/22 (Pre-refunded 5/15/12)

6,460 Total South Carolina

South Dakota □ 0.8%

1,000 South Dakota Health and Educational Facilities Authority, Revenue Bonds, Sanford Health, Series 2007, 5.000%, 11/01/27

Tennessee □ 2.2%

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)

1,250 6.000%, 9/01/17 (Pre-refunded 9/01/12)

400 The Tennessee Energy Acquisition Corporation, Gas Revenue Bonds, Series 2006A, 5.000%, 9/01/13

2,400 Total Tennessee

Texas □ 6.4%

1,055 Austin, Texas, General Obligation Bonds, Series 2004, 5.000%, 9/01/20 □ MBIA Insured

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)

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)

2,000 Brazos River Authority, Texas, Collateralized Revenue Refunding Bonds, CenterPoint Energy 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)

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)

1,875 Denton Independent School District, Denton County, Texas, General Obligation Bonds, Series 2006, 5.000%, 8/15/20

35 Galveston Property Finance Authority Inc., Texas, Single Family Mortgage Revenue Bonds, Series 1991A, 8.500%, 9/01/11

300 Kerrville Health Facilities Development Corporation, Texas, Revenue Bonds, Sid Peterson Memorial Hospital Project, Series 2005, 5.125%, 8/15/26

325 North Texas Thruway Authority, Second Tier System Revenue Refunding Bonds, Series 2008, 5.750%, 1/01/38

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)

1,500 Texas Municipal Gas Acquisition and Supply Corporation I, Gas Supply Revenue Bonds, Series 2006B, 2.439%, 12/15/17

320 Tri-County Mental Health and Retardation Center, Texas, Revenue Bonds, Facilities Acquisition Program, Series 1995E, 6.500%, 3/01/15 □ FSA Insured

175 Weslaco Health Facilities Development Corporation, Texas, Hospital Revenue Bonds, Knapp Medical Center, Series 2002, 6.000%, 6/01/17

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8,715 Total Texas

Utah □ 0.7%

895 Bountiful, Davis County, Utah, Hospital Revenue Refunding Bonds, South Davis Community Hospital Project, Series 1998, 6.000%, 12/15/10

Virginia □ 0.2%

250 Virginia College Building Authority, Educational Facilities Revenue Refunding Bonds, Marymount University, Series 1998, 5.100%, 7/01/18 □ RAAI Insured

Washington □ 0.3%

295 Washington Public Power Supply System, Revenue Refunding Bonds, Nuclear Project 3, Series 1989B, 7.125%, 7/01/16 □ MBIA Insured

Wisconsin □ 3.3%

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

730 6.125%, 6/01/27
 1,480 6.375%, 6/01/32
 1,000 Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Agnesian Healthcare Inc., Series 2001, 6.000%, 7/01/21
 1,150 Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Aurora Health Care Inc., Series 1999A, 5.500%, 2/15/20 □ ACA Insured
 200 Wisconsin Health and Educational Facilities Authority, Revenue Bonds, Wheaton Franciscan Healthcare System, Series 2006, 5.250%, 8/15/18

4,560 Total Wisconsin

\$ 120,298 Total Long-Term Investments (cost \$117,855,623) □ 95.7%

Short-Term Investments □ 2.6%

Municipal Bonds □ 0.4%

\$ 500 King County, Washington, Sewer Revenue Bonds, Variable Rate Demand Obligations, Series 2001, Trust 554, 2.250%, 1/01/19 □ FGIC Insured (5)

Euro Time Deposits □ 2.2%

2,562 State Street Bank Euro Dollar Time Deposit, 0.010%, 1/02/09

\$ 3,062 Total Short-Term Investments (cost \$3,061,752)

Total Investments (cost \$120,917,375) □ 98.3%

Other Assets Less Liabilities □ 1.7%

Net Assets □ 100%

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- (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 higher of Standard & Poor's Group ("Standard & Poor's") or Moody's Investor Service, Inc. ("Moody's") rating. Ratings below BBB by Standard & Poor's or Baa by Moody's are considered to be below investment grade.
The Portfolio of Investments may reflect the ratings on certain bonds insured by ACA, AGC, AMBAC, CIFG, FGIC, FSA, MBIA, RAAI and SYNCORA as of December 31, 2008. Subsequent to December 31, 2008 and during the period this Portfolio of Investments was prepared, there may have been reductions to the ratings of certain bonds resulting from changes to the ratings of the underlying insurers both during the period and after period end. Such reductions would likely reduce the effective rating of many of the bonds, insured by that insurer or insurers presented at period end.
- (4) Backed by an escrow or trust containing sufficient U.S. Government or U.S. Government agency securities which ensure the timely payment of principal and interest. Such investments are normally considered to be equivalent to AAA rated 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. This rate changes periodically based on market conditions or a specified market index.

N/A Not applicable/not available.

N/R Not rated.

(ETM) Escrowed to maturity.

Fair Value Measurements

During the current fiscal period, the Fund adopted the provisions of Statement of Financial Accounting Standards No. 157 (SFAS No.157) "Fair Value Measurements." SFAS No. 157 defines fair value, establishes a framework for measuring fair value in generally accepted accounting principles, and expands disclosure about fair value measurements. In determining the 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 methodology 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, 2008:

| | Level 1 | Level 2 | Level 3 | Total |
|-------------|-------------|---------------|---------|---------------|
| Investments | \$2,561,752 | \$111,573,818 | \$ □ | \$114,135,570 |

Income Tax Information

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMP

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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, 2008, the cost of investments was \$120,843,672.

Gross unrealized appreciation and gross unrealized depreciation of investments at December 31, 2008, were as follows:

| | |
|-------------------|--------------|
| Gross unrealized: | |
| Appreciation | \$ 2,360,804 |
| Depreciation | (9,068,906) |

| | |
|---|---------------|
| Net unrealized appreciation (depreciation) of investments | \$(6,708,102) |
|---|---------------|

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 February 27, 2009

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 February 27, 2009

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

Date February 27, 2009