NUVEEN SELECT MATURITIES MUNICIPAL FUND Form N-Q February 29, 2016

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 811-07056

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: 12/31/15

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					
		Nuveen Select Maturities Municipal Fund (NIM) December 31, 2015 (Unaudited)					
Principal Amount (000)		Description (1)	Optional Call Provisions (2)	Ratings (3)Value			
		LONG-TERM INVESTMENTS – 98.4%					
		MUNICIPAL BONDS – 98.4%					
		Alabama – 0.2% Mobile Spring Hill College Educational Building Authority, Alabama, Revenue Bonds,					
\$	125	Spring Hill College Project, Series 2015, 5.000%, 4/15/27 Montgomery Medical Clinic Board, Alabama,	4/25 at 100.00	N/R \$		120,805	
	110	Health Care Facility Revenue Bonds, Jackson Hospital & Clinic, Series 2015, 4.000%, 3/01/36 (WI/DD, Settling 1/14/16)	3/26 at 100.00	BBB		110,042	
	235	Total Alabama Alaska – 0.1%				230,847	
	155	Alaska State, Sport Fishing Revenue Bonds, Refunding Series 2011, 5.000%, 4/01/21 Arizona – 2.9%	4/20 at 100.00	A1		174,527	
		Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Refunding Series 2012A:					
	255	5.000%, 2/01/20	No Opt. Call	BBB+		287,150	
	290	5.000%, 2/01/27 Arizona Health Facilities Authority, Revenue	2/22 at 100.00	BBB+		320,001	
	70	Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24 Arizona Sports and Tourism Authority, Tax	No Opt. Call	A2		84,353	
		Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A:					
	425	5.000%, 7/01/25	7/22 at 100.00	A1		478,338	
	685	5.000%, 7/01/26	7/22 at 100.00	A1		766,008	
	685	5.000%, 7/01/27 Pima County Industrial Development Authority, Arizona, Revenue Bonds, Tucson	7/22 at 100.00	A1		761,734	
	100	Electric Power	3/23 at 100.00	A3		104,920	

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	Company Project, Series 2013A, 4.000%, 9/01/29			
	Salt Verde Financial Corporation, Arizona,			
	Senior Gas Revenue Bonds, Citigroup Energy			
	Inc.			
	Prepay Contract Obligations, Series 2007:			
150	5.000%, 12/01/17	No Opt. Call	BBB+	160,293
135	5.250%, 12/01/19	No Opt. Call	BBB+	152,372
95	5.000%, 12/01/32	No Opt. Call	BBB+	111,342
500	5.000%, 12/01/37	No Opt. Call	BBB+	580,525
3,390	Total Arizona	L		3,807,036
	Arkansas – 0.4%			
	Independence County, Arkansas, Pollution			
	Control Revenue Bonds, Arkansas Power and			
500	Light	No Opt. Call	А-	518,490
	Company Project, Series 2013, 2.375%,			
	1/01/21			
	California – 6.7%			
	Alameda Corridor Transportation Authority,			
	California, Revenue Bonds, Refunding Senior			
300	Lien	No Opt. Call	А	367,020
	Series 2013A, 5.000%, 10/01/23			
	California Health Facilities Financing			
125	Authority, Revenue Bonds, Lucile Salter Packard	No Opt Call		126 126
123	Children's Hospital, Series 2008A, 1.450%,	No Opt. Call	AA	126,136
	8/15/33 (Mandatory put 3/15/17)			
	California Health Facilities Financing			
	Authority, Revenue Bonds, Lucile Salter			
145	Packard	No Opt. Call	AA	146,318
	Children's Hospital, Series 2008C, 1.450%,			,
	8/15/23 (Mandatory put 3/15/17)			
	California Pollution Control Financing			
	Authority, Solid Waste Disposal Revenue			
105	Bonds, Waste	No Opt. Call	А-	107,732
	Management Inc., Refunding Series 2015B-2,			
	3.125%, 11/01/40 (Mandatory put 11/03/25)			
	California Pollution Control Financing			
	Authority, Solid Waste Disposal Revenue			
290	Bonds, Waste	No Opt. Call	A–	306,556
	Management Inc., Series 2015A-1, 3.375%,			
	7/01/25 (Alternative Minimum Tax)			
	California Pollution Control Financing			
205	Authority, Solid Waste Disposal Revenue	No Ort Call	•	200.071
205	Bonds, Waste Management Inc. Project Refunding Series	No Opt. Call	A–	209,971
	Management, Inc. Project, Refunding Series 2015B-1, 3.000%, 11/01/25 (Alternative			
	Minimum Tax)			
	California State, General Obligation Bonds,			
525	Various Purpose Series 2010, 5.500%, 3/01/40	3/20 at 100.00	AA-	609,042
125			BB+	138,148
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	California Statewide Communities Development Authority, California, Revenue	12/24 at 100.00		
	Bonds, Loma Linda University Medical Center, Series 2014A, 5.250%, 12/01/29			
	California Statewide Communities Development Authority, Revenue Bonds,			
260	Kaiser Permanente, Series 20012E-1, 5.000%, 4/01/44 (Mandatory	No Opt. Call	A+	274,643
	put 5/01/17) Delano, California, Certificates of Participation, Delano Regional Medical			
250	Center, Series 2012, 5.000%, 1/01/24	No Opt. Call	BBB-	275,468
510	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement			706 700
710	Asset-Backed Bonds, Series 2007A-1, 4.500%, 6/01/27 Lake Elsinore Public Financing Authority,	6/17 at 100.00	B+	706,528
100	California, Local Agency Revenue Bonds, Canyon Hills	9/24 at 100.00	N/R	109,662
	Improvement Area A & C, Series 2014C, 5.000%, 9/01/32			
365	Lake Elsinore Redevelopment Agency, California, Special Tax Bonds, Community Facilities	10/17 at 100.00	AA	382,681
	District 90-2, Series 2007A, 4.500%, 10/01/24 AGM Insured			,
	Moulton Niguel Water District, California, Certificates of Participation, Refunding Series 2003:			
250	5.000%, 9/01/21 (Pre-refunded 9/01/16) – AMBAC Insured 5.000%, 9/01/22 (Pre-refunded 9/01/16) –	9/16 at 100.00	AAA	257,660
250	AMBAC Insured 5.000%, 9/01/23 (Pre-refunded 9/01/16) –	9/16 at 100.00	AAA	257,660
500	AMBAC Insured Mount San Antonio Community College	9/16 at 100.00	AAA	515,320
1,000	District, Los Angeles County, California, General Obligation Bonds, Election of 2008, Series	2/28 at 100.00	AA	883,060
	2013A, 0.000%, 8/01/28 Palomar Pomerado Health, California, General			
2,000	Obligation Bonds, Series 2009A, 0.000%, 8/01/25 – AGC Insured	No Opt. Call	AA	1,458,780
	Riverside County Transportation Commission, California, Toll Revenue Senior Lien Bonds,			
35	Series 2013A, 5.750%, 6/01/44	6/23 at 100.00	BBB-	40,252
2,000		No Opt. Call	AA+	896,400

	San Diego Community College District, California, General Obligation Bonds, Refunding Series 2011, 0.000%, 8/01/37 San Joaquin Hills Transportation Corridor			
	Agency, Orange County, California, Toll Road			
415	Revenue	1/25 at 100.00	BBB-	463,385
	Bonds, Refunding Senior Lien Series 2014A,			
	5.000%, 1/15/29			
	Washington Township Health Care District,			
	California, Revenue Bonds, Refunding Series			
215	2015A,	No Opt. Call	Baa1	250,514
	5.000%, 7/01/25			
10,170	Total California			8,782,936
	Colorado – 1.1%			
	E-470 Public Highway Authority, Colorado,			
	Senior Revenue Bonds, Series 2000B:			
300	0.000%, 9/01/29 – NPFG Insured	No Opt. Call	AA-	187,344
235	0.000%, 9/01/33 – NPFG Insured	No Opt. Call		