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

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

FORM N-O

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: 6/30/16

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) June 30, 2016 (Unaudited)

LONG-TERM INVESTMENTS - 99.3% MUNICIPAL BONDS - 99.3%	Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
S 125 Mobile Spring Hill College Educational Building Authority, 4/25 at 100.00 N/R 128,301 128,301 100.00 N/R 129,475 100.00 N/R 129,475 100.00 N/R 129,475 100.00 N/R 128,301	, ,	LONG-TERM INVESTMENTS – 99.3%	,		
\$ 125 Mobile Spring Hill College Educational Building Authority, Alabama, Revenue Bonds, Spring Hill 4/25 at 100.00 N/R \$ 128,301 75 Montgomery Medical Clinic Board, Alabama, Health Care Facility Revenue Bonds, Jackson Hospital & Clinic, Series 2015, 4.000%, 3/01/36 3/26 at 100.00 BBB 79,473 200 Total Alabama Alaska – 0.1% 207,774 155 Alaska State, Sport Fishing Revenue Bonds, Refunding Series 2011, 4/20 at 5.000%, 4/01/21 100.00 A1 175,055 4 Arizona – 3.0% Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Refunding Series 2012A: No Opt. Call BBB+ 289,953 289,953 290 5.000%, 2/01/20 No Opt. Call BBB+ 332,798 389,002 70 Arizona Health Facilities Authority, Revenue Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24 No Opt. Call A2 89,002 425 5.000%, 7/01/25 7/22 at 100.00 A1 493,527 685 5.000%, 7/01/26 7/22 at 100.00 A1 792,102 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,102 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,31		MUNICIPAL BONDS – 99.3%			
Montgomery Medical Clinic Board, Alabama, Health Care Facility 3/26 at Revenue Bonds, Jackson 100.00 BBB 79,473 100.00 Hospital & Clinic, Series 2015, 4.000%, 3/01/36 207,774 207,775 207,774 207,775 207,774 207,775 207	\$ 125	Mobile Spring Hill College Educational Building Authority, Alabama, Revenue Bonds, Spring Hill		N/R	
200 Total Alabama Alaska – 0.1% 207,774 155 Alaska State, Sport Fishing Revenue Bonds, Refunding Series 2011, 4/20 at 5.000%, 4/01/21 100.00 A1 175,055 5.000%, 4/01/21 Arizona – 3.0% Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Refunding Series 2012A: No Opt. Call BBB+ 289,953 255 5.000%, 2/01/20 No Opt. Call BBB+ 332,798 70 Arizona Health Facilities Authority, Revenue Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24 Arizona Sports and Tourism Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A: No Opt. Call A2 89,002 425 5.000%, 7/01/25 7/22 at 100.00 A1 493,527 685 5.000%, 7/01/26 7/22 at 100.00 A1 792,100 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,312 100 Pima County Industrial Development Authority, Arizona, Revenue Bonds, Tucson Electric Power 3/23 at 111,304	75	Montgomery Medical Clinic Board, Alabama, Health Care Facility Revenue Bonds, Jackson		BBB	79,473
Alaska State, Sport Fishing Revenue Bonds, Refunding Series 2011, 4/20 at 5.000%, 4/01/21 arizona – 3.0% Arizona Health Facilities Authority, Hospital System Revenue Bonds, Phoenix Children's Hospital, Refunding Series 2012A: Solution	200	Total Alabama			207,774
Bonds, Phoenix Children's Hospital, Refunding Series 2012A: 255 5.000%, 2/01/20 No Opt. Call BBB+ 289,953 2/22 at 100.00 BBB+ 332,798 290 5.000%, 2/01/27 BBB+ 289,953 2/22 at 100.00 BBB+ 332,798 2/22 at 100.00 BBB+ 289,953 2/22 at 100.00 BBB+ 332,798 2/22 at 100.00 BBB+ 289,953 2/22 at 100.00 BBB+ 289,953 2/22 at 100.00 A1 2/201/24 Arizona Sports and Tourism Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A: 7/22 at 100.00 A1 493,527 425 5.000%, 7/01/25 7/22 at 100.00 A1 792,100 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,312 100.00 Pima County Industrial Development Authority, Arizona, Revenue 3/23 at 100.00 A3 111,304 111,3	155	Alaska State, Sport Fishing Revenue Bonds, Refunding Series 2011 5.000%, 4/01/21		A1	175,055
290 5.000%, 2/01/27 2/22 at 100.00 BBB+ 332,798 70 Arizona Health Facilities Authority, Revenue Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24	255	Bonds, Phoenix Children's Hospital, Refunding Series 2012A:	No Ont Call	RRR+	289 953
Arizona Health Facilities Authority, Revenue Bonds, Scottsdale Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24 Arizona Sports and Tourism Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A: 425 5.000%, 7/01/25 7/22 at 100.00 A1 493,527 685 5.000%, 7/01/26 7/22 at 100.00 A1 792,100 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,312 100 Pima County Industrial Development Authority, Arizona, Revenue Bonds, Tucson Electric Power 3/23 at 100.00 A3 111,304			2/22 at		
Project, Refunding Senior Series 2012A: 425	70	Lincoln Hospitals Project, Series 2014A, 5.000%, 12/01/24 Arizona Sports and Tourism Authority, Tax Revenue Bonds,		A2	89,002
425 5.000%, 7/01/25 100.00 A1 493,527 685 5.000%, 7/01/26 7/22 at 100.00 A1 792,100 685 5.000%, 7/01/27 7/22 at 100.00 A1 792,312 100 Pima County Industrial Development Authority, Arizona, Revenue 3/23 at Bonds, Tucson Electric Power 100.00 A1 111,304		• •			
5.000%, 7/01/26 685 5.000%, 7/01/27 100.00 A1 7/92,100 7/22 at 100.00 A1 792,312 100 Pima County Industrial Development Authority, Arizona, Revenue 3/23 at Bonds, Tucson Electric Power A1 792,100 A1 792,100 A1 792,100 A1 792,100 A1 792,312	425	5.000%, 7/01/25		A1	493,527
Pima County Industrial Development Authority, Arizona, Revenue 3/23 at Bonds, Tucson Electric Power 100.00 A1 /92,312 100.00 A3 111,304	685	5.000%, 7/01/26		A1	792,100
Pima County Industrial Development Authority, Arizona, Revenue 3/23 at Bonds, Tucson Electric Power 100.00 A3 111,304	685	5.000%, 7/01/27		A1	792,312
	100	Bonds, Tucson Electric Power	3/23 at	A3	111,304

	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc. Prepay Contract Obligations, Series 2007:			
150		No Ont Call	DDD .	157 700
150	5.000%, 12/01/17	No Opt. Call		157,790
135	5.250%, 12/01/19	No Opt. Call		151,101
95 575	5.000%, 12/01/32	No Opt. Call		120,913
575	5.000%, 12/01/37	No Opt. Call	RRR+	755,746
3,465	Total Arizona			4,086,546
	Arkansas – 0.5%			
525	Independence County, Arkansas, Pollution Control Revenue Bonds, Arkansas Power and Light	No Opt. Call	A2	553,319
	Company Project, Series 2013, 2.375%, 1/01/21			
50	Springdale Public Facilities Board, Arkansas, Hospital Revenue	9/26 at	A A	51 146
50	Bonds, Arkansas Children's	100.00	AA-	51,146
	Northwest Project, Series 2016, 3.000%, 3/01/35			
575	Total Arkansas			604,465
	California – 6.9%			
200	Alameda Corridor Transportation Authority, California, Revenue	N - O - 4 C - 11	A	276 504
300	Bonds, Refunding Senior Lien	No Opt. Call	A	376,584
	Series 2013A, 5.000%, 10/01/23			
105	California Health Facilities Financing Authority, Revenue Bonds,	3/17 at	A A (4)	105.776
125	Lucile Salter Packard	100.00	AA (4)	125,776
	Children's Hospital, Series 2008A, 1.450%, 8/15/33 (Pre-refunded			
	3/15/17)			
1.45	California Health Facilities Financing Authority, Revenue Bonds,	3/17 at		1.45.000
145	Lucile Salter Packard	100.00	AA (4)	145,900
	Children's Hospital, Series 2012C, 1.450%, 8/15/23 (Pre-refunded			
	3/15/17)			
	California Pollution Control Financing Authority, Solid Waste			
105	Disposal Revenue Bonds, Waste	No Opt. Call	A–	112,407
	Management Inc., Refunding Series 2015B-2, 3.125%, 11/01/40			
	(Mandatory put 11/03/25)			
	(Alternative Minimum Tax)			
	California Pollution Control Financing Authority, Solid Waste			
290	Disposal Revenue Bonds, Waste	No Opt. Call	A–	319,412
	Management Inc., Series 2015A-1, 3.375%, 7/01/25 (Alternative			
	Minimum Tax)			
	California Pollution Control Financing Authority, Solid Waste			
205	Disposal Revenue Bonds, Waste	No Opt. Call	A-	219,395
	Management, Inc. Project, Refunding Series 2015B-1, 3.000%,			
	11/01/25 (Alternative Minimum Tax)			
	California State, General Obligation Bonds, Various Purpose Series	3/20 at		
525	2010, 5.500%, 3/01/40	100.00	AA-	611,347
	California Statewide Communities Development Authority,	12/24 at		
125	California, Revenue Bonds, Loma Linda	100.00	BB+	148,033
		100.00		
	University Medical Center, Series 2014A, 5.250%, 12/01/29			
285	California Statewide Communities Development Authority,	No Opt. Call	AA-	295,189
	Revenue Bonds, Kaiser Permanente,	_		
	Series 2012E-1, 5.000%, 4/01/44 (Mandatory put 5/01/17)			
250	Delano, California, Certificates of Participation, Delano Regional	No Opt. Call	BBB-	285,123
	Medical Center, Series	-		

	2012, 5.000%, 1/01/24			
710	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed	6/17 at 100.00	В	723,178
	Bonds, Series 2007A-1, 4.500%, 6/01/27			
100	Lake Elsinore Public Financing Authority, California, Local Agency Revenue Bonds, Canyon Hills	y9/24 at 100.00	N/R	114,859
365	Improvement Area A & C, Series 2014C, 5.000%, 9/01/32 Lake Elsinore Redevelopment Agency, California, Special Tax Bonds, Community Facilities District 90-2, Series 2007A, 4.500%, 10/01/24 – AGM Insured Moulton Niguel Water District, California, Certificates of	10/17 at 100.00	AA	379,950
	Participation, Refunding Series 2003:	9/16 at		
250	5.000%, 9/01/21 (Pre-refunded 9/01/16) – AMBAC Insured	100.00	AAA	251,945
250	5.000%, 9/01/22 (Pre-refunded 9/01/16) – AMBAC Insured	9/16 at 100.00	AAA	251,945
500	5.000%, 9/01/23 (Pre-refunded 9/01/16) – AMBAC Insured	9/16 at 100.00	AAA	503,890
1,000	Mount San Antonio Community College District, Los Angeles County, California, General	2/28 at 100.00	AA	976,250
	Obligation Bonds, Election of 2008, Series 2013A, 0.000%, 8/01/28	}		
2,000	(5) Palomar Pomerado Health, California, General Obligation Bonds, Series 2009A, 0.000%, 8/01/25 – AGC Insured	No Opt. Call	AA	1,581,240
35	Riverside County Transportation Commission, California, Toll Revenue Senior Lien Bonds, Series 2013A, 5.750%, 6/01/44	6/23 at 100.00	BBB-	42,063
2,000	San Diego Community College District, California, General Obligation Bonds, Refunding Series 2011, 0.000%, 8/01/37	No Opt. Call	AA+	1,088,720
415	San Joaquin Hills Transportation Corridor Agency, Orange County, California, Toll Road Revenue Bonds, Refunding Senior Lien Series 2014A, 5.000%, 1/15/29	1/25 at 100.00	BBB-	488,414
215	Washington Township Health Care District, California, Revenue Bonds, Refunding Series 2015A, 5.000%, 7/01/25	No Opt. Call	Baa1	265,510
10,195	Total California			9,307,130
	Colorado – 1.1% E-470 Public Highway Authority, Colorado, Senior Revenue Bonds	,		
300	Series 2000B: 0.000%, 9/01/29 – NPFG Insured	No Opt. Call	Λ Λ	210,594
245	0.000%, 9/01/33 – NPFG Insured	No Opt. Call	AA-	150,842
10	E-470 Public Highway Authority, Colorado, Senior Revenue Bonds	'No Opt Coll	A A	10,858
10	Series 2007A-1, 5.250%, 9/01/18 – NPFG Insured	110 Opt. Call	ΛΛ-	10,030
1,000	E-470 Public Highway Authority, Colorado, Toll Revenue Bonds, Series 2004B, 0.000%, 3/01/36 – NPFG Insured	9/20 at 41.72	AA-	363,170
500	Plaza Metropolitan District 1, Lakewood, Colorado, Tax Increment Revenue Bonds, Refunding	No Opt. Call	N/R	547,245

	Series 2013, 5.000%, 12/01/20			
210	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	BBB+	244,633
2,265	Total Colorado Connecticut – 0.8%			1,527,342
100	Connecticut Health and Educational Facilities Authority, Revenue Bonds, Healthcare Facility Expansion Church Home of Hartford Inc. Project, TEMPS-50	9/17 at 100.00	BB	100,864
900	Series 2016B-2, 2.875%, 9/01/20 Connecticut Health and Educational Facilities Authority, Revenue Bonds, Yale University, Series 2010A-3, 0.875%, 7/01/49 (Mandatory put 2/08/18)	No Opt. Call	AAA	902,142
1,000	Total Connecticut			1,003,006
170	Delaware – 0.1% Delaware Health Facilities Authority, Revenue Bonds, Nanticoke Memorial Hospital, Series 2013, 5.000%, 7/01/28	7/23 at 100.00	BBB	190,874
120	District of Columbia – 1.0% District of Columbia Student Dormitory Revenue Bonds, Provident Group – Howard Properties LLC Issue, Series 2013, 5.000%, 10/01/30	10/22 at 100.00	BB+	124,363
990	District of Columbia Tobacco Settlement Corporation, Tobacco Settlement Asset-Backed Bonds, Series 2001, 6.500%, 5/15/33	No Opt. Call	Baa1	1,246,232
1,110	Total District of Columbia Florida – 4.2%			1,370,595
	Citizens Property Insurance Corporation, Florida, Coastal Account Senior Secured Bonds, Series 2015A-1:			
545	5.000%, 6/01/22	12/21 at 100.00	AA-	649,455
365	5.000%, 6/01/25	12/24 at 100.00	AA-	459,144
195	Citizens Property Insurance Corporation, Florida, High-Risk Account Revenue Bonds, Coastal	No Opt. Call	AA-	210,522
	Account Senior Secured Series 2011A-1, 5.000%, 6/01/18 Citizens Property Insurance Corporation, Florida, Personal and Commercial Lines Account Bonds, Senior Secured Series 2012A-1:			
50	5.000%, 6/01/18	No Opt. Call		53,980
455	5.000%, 6/01/20 Collier County Educational Facilities Authority, Florida, Revenue Bonds, Hodges University, Refunding Series 2013:	No Opt. Call	AA-	524,365
100				