

Nuveen AMT-Free Municipal Credit Income Fund
Form N-Q
September 29, 2017

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 811-09475

Nuveen AMT-Free Municipal Credit Income 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)

Gifford R. Zimmerman

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: October 31

Date of reporting period: July 31, 2017

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

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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

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Nuveen AMT-Free Municipal Credit Income Fund
Portfolio of Investments July 31, 2017 (Unaudited)

Principal

Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	LONG-TERM INVESTMENTS – 154.3% (99.6% of Total Investments)			
	MUNICIPAL BONDS – 154.3% (99.6% of Total Investments)			
	Alabama – 1.7% (1.1% of Total Investments)			
\$ 3,645	Alabama Private Colleges and University Facilities Authority, Limited Obligation Bonds, University of Mobile Project, Series 2015A, 6.000%, 9/01/45	9/25 at 100.00	N/R	\$3,726,648
30,355	Lower Alabama Gas District, Alabama, Gas Project Revenue Bonds, Series 2016A, 5.000%, 9/01/46	No Opt. Call	A3	38,168,377
8,100	Mobile Spring Hill College Educational Building Authority, Alabama, Revenue Bonds, Spring Hill College Project, Series 2015, 5.875%, 4/15/45	4/25 at 100.00	N/R	8,234,541
	Opelika Utilities Board, Alabama, Utility Revenue Bonds, Series 2011B:			
1,250	4.000%, 6/01/29 – AGM Insured	6/21 at 100.00	Aa3	1,304,400
1,000	4.250%, 6/01/31 – AGM Insured	6/21 at 100.00	Aa3	1,047,310
	The Improvement District of the City of Mobile - McGowin Park Project, Alabama, Sales Tax Revenue Bonds, Series 2016A:			
1,000	5.250%, 8/01/30	8/26 at 100.00	N/R	1,037,890
1,300	5.500%, 8/01/35	8/26 at 100.00	N/R	1,344,031
46,650	Total Alabama			54,863,197
	Alaska – 0.6% (0.4% of Total Investments)			
	Northern Tobacco Securitization Corporation, Alaska, Tobacco Settlement Asset-Backed Bonds, Series 2006A:			
7,010	5.000%, 6/01/32	10/17 at 100.00	B3	6,785,540
13,965	5.000%, 6/01/46	10/17 at 100.00	B3	13,360,315
20,975	Total Alaska			20,145,855
	Arizona – 2.9% (1.9% of Total Investments)			
4,230	Apache County Industrial Development Authority, Arizona, Pollution Control Revenue Bonds, Tucson Electric Power Company, Series 20102A, 4.500%, 3/01/30	3/22 at 100.00	A-	4,563,282
10,000	Arizona Sports and Tourism Authority, Tax Revenue Bonds, Multipurpose Stadium Facility Project, Refunding Senior Series 2012A, 5.000%, 7/01/31	7/22 at 100.00	A	10,867,200
3,000	Arizona State, Certificates of Participation, Department of Administration Series 2010B, 5.000%, 10/01/29 – AGC Insured	4/20 at 100.00	Aa3	3,273,810
	Arizona State, Certificates of Participation, Series 2010A:			
1,200	5.250%, 10/01/28 – AGM Insured	10/19 at 100.00	Aa3	1,303,068
1,500	5.000%, 10/01/29 – AGM Insured	10/19 at 100.00	Aa3	1,619,175
7,070	Arizona State, State Lottery Revenue Bonds, Series 2010A, 5.000%, 7/01/29 – AGC Insured	1/20 at 100.00	A1	7,715,067

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3,390	Cahava Springs Revitalization District, Cave Creek, Arizona, Special Assessment Bonds, Series 2017A, 7.000%, 7/01/41	7/27 at 100.00	N/R	3,500,989
7,780	Phoenix Civic Improvement Corporation, Arizona, Airport Revenue Bonds, Junior Lien Series 2010A, 5.000%, 7/01/40	7/20 at 100.00	A+	8,538,939
2,350	Phoenix Civic Improvement Corporation, Arizona, Airport Revenue Bonds, Senior Lien Series 2008A, 5.000%, 7/01/33	7/18 at 100.00	AA-	2,430,041

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Arizona (continued)			
	Phoenix Civic Improvement Corporation, Arizona, Revenue Bonds, Civic Plaza Expansion Project, Series 2005B:			
\$ 6,000	5.500%, 7/01/37 – FGIC Insured	No Opt. Call	AA	\$7,858,440
8,755	5.500%, 7/01/39 – FGIC Insured	No Opt. Call	AA	11,587,505
	Phoenix Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Basis Schools, Inc. Projects, Series 2016A:			
620	5.000%, 7/01/35	7/25 at 100.00	BB	648,836
1,025	5.000%, 7/01/46	7/25 at 100.00	BB	1,060,158
2,065	Phoenix Industrial Development Authority, Arizona, Multifamily Housing Revenue Bonds, Deer Valley Veterans Assisted Living Project, Series 2016A, 5.125%, 7/01/36	7/24 at 101.00	N/R	2,002,885
	Pima County Industrial Development Authority, Arizona, Education Facility Revenue and Refunding Bonds, Edkey Charter Schools Project, Series 2013:			
490	6.000%, 7/01/33	7/20 at 102.00	BB	446,135
610	6.000%, 7/01/43	7/20 at 102.00	BB	522,245
350	6.000%, 7/01/48	7/20 at 102.00	BB	296,492
1,375	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Edkey Charter Schools Project, Series 2014A, 7.375%, 7/01/49	7/20 at 102.00	BB	1,277,499
	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, Edkey Charter Schools Project, Series 2016:			
1,130	5.250%, 7/01/36	7/26 at 100.00	BB	978,670
1,850	5.375%, 7/01/46	7/26 at 100.00	BB	1,549,486
2,135	5.500%, 7/01/51	7/26 at 100.00	BB	1,782,405
885	Pima County Industrial Development Authority, Arizona, Education Facility Revenue Bonds, San Tan Montessori School Project, Series 2016, 6.500%, 2/01/48	2/24 at 100.00	N/R	907,576
105	Pima County Industrial Development Authority, Arizona, Education Revenue Bonds, Noah Webster Schools Pima Project, Series 2014A, 7.250%, 7/01/39	7/20 at 102.00	BB	98,107
1,000	Pima County Industrial Development Authority, Arizona, Revenue Bonds, Tucson Electric Power Company, Series 2010A, 5.250%, 10/01/40	10/20 at 100.00	A-	1,072,300
	Salt Verde Financial Corporation, Arizona, Senior Gas Revenue Bonds, Citigroup Energy Inc. Prepay Contract Obligations, Series 2007:			
7,930	5.000%, 12/01/32	No Opt. Call	BBB+	9,435,986
5,310	5.000%, 12/01/37	No Opt. Call	BBB+	6,409,489
800	The Industrial Development Authority of the County of Maricopa, Arizona, Education Revenue Bonds, Reid Traditional School Projects, Series 2016, 5.000%, 7/01/47	7/26 at 100.00	Baa3	833,264

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	Arizona (continued)			
\$ 2,000	Yavapai County Industrial Development Authority, Arizona, Hospital Revenue Bonds, Yavapai Regional Medical Center, Series 2013A, 5.250%, 8/01/33	8/23 at 100.00	Baa1	\$ 2,226,840
84,955	Total Arizona			94,805,889
	Arkansas – 0.2% (0.1% of Total Investments)			
	Arkansas Development Finance Authority, Tobacco Settlement Revenue Bonds, Arkansas Cancer Research Center Project, Series 2006:			
2,500	0.000%, 7/01/36 – AMBAC Insured	No Opt. Call	Aa2	1,199,525
20,460	0.000%, 7/01/46 – AMBAC Insured	No Opt. Call	Aa2	5,978,821
22,960	Total Arkansas			7,178,346
	California – 17.8% (11.5% of Total Investments)			
	Alameda Corridor Transportation Authority, California, Revenue Bonds, Refunding Subordinate Lien Series 2004A:			
45	0.000%, 10/01/20 – AMBAC Insured	No Opt. Call	Baa2	42,571
2,120	0.000%, 10/01/20 – AMBAC Insured (ETM)	No Opt. Call	Aaa	2,041,666
6,135	Alhambra Unified School District, Los Angeles County, California, General Obligation Bonds, Capital Appreciation Series 2009B, 0.000%, 8/01/30 – AGC Insured	No Opt. Call	AA	4,092,229
12,550	Anaheim Public Financing Authority, California, Lease Revenue Bonds, Public Improvement Project, Series 1997C, 0.000%, 9/01/35 – AGM Insured	No Opt. Call	A2	6,110,344
4,100	Antelope Valley Healthcare District, California, Revenue Bonds, Series 2016A, 5.000%, 3/01/41	3/26 at 100.00	Ba3	4,041,165
5,000	Bay Area Toll Authority, California, Revenue Bonds, San Francisco Bay Area Toll Bridge, Series 2013S-4, 5.000%, 4/01/38	4/23 at 100.00	A1	5,731,850
	California County Tobacco Securitization Agency, Tobacco Settlement Asset-Backed Bonds, Los Angeles County Securitization Corporation, Series 2006A:			
3,275	5.450%, 6/01/28	12/18 at 100.00	B3	3,315,839
2,975	5.650%, 6/01/41	12/18 at 100.00	B2	2,992,285
13,465	California Educational Facilities Authority, Revenue Bonds, Stanford University Series 2016U-7, 5.000%, 6/01/46 (UB) (4)	No Opt. Call	AAA	18,302,167
10,040	California Educational Facilities Authority, Revenue Bonds, Stanford University, Series 2007, 5.000%, 3/15/39 (UB) (4)	No Opt. Call	AAA	13,226,696
25,085	California Educational Facilities Authority, Revenue Bonds, Stanford University, Refunding Series 2014U-6, 5.000%, 5/01/45 (UB) (4)	No Opt. Call	AAA	33,939,503
10,000	California Health Facilities Financing Authority, Revenue Bonds, Lucile Salter Packard Children's Hospital, Series 2012A, 5.000%, 8/15/51	8/22 at 100.00	A+	11,131,400
1,600	California Health Facilities Financing Authority, Revenue Bonds, Saint Joseph Health System, Series 2013A, 5.000%, 7/01/37	7/23 at 100.00	AA-	1,818,688
6,665		8/25 at 100.00	AA-	7,534,183

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California Health Facilities Financing Authority, Revenue
 Bonds, Stanford Hospitals and Clinics, Series 2015A, 5.000%,
 8/15/54 (UB) (4)

California Health Facilities Financing Authority, Revenue
 Bonds, Stanford Hospitals and Clinics, Tender Option Bond
 Trust 2016-XG0049:

1,555	8.642%, 8/15/51 (IF) (4)	8/22 at 100.00	AA-	1,922,151
1,650	8.648%, 8/15/51 (IF) (4)	8/22 at 100.00	AA-	2,039,928
4,075	8.648%, 8/15/51 (IF) (4)	8/22 at 100.00	AA-	5,038,004
5,000	California Health Facilities Financing Authority, Revenue Bonds, Sutter Health, Series 2013A, 5.000%, 8/15/52	8/23 at 100.00	AA-	5,519,350

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
	California Municipal Finance Authority, Charter School Revenue Bonds, Palmdale Aerospace Academy Project, Series 2016A:			
\$ 3,065	5.000%, 7/01/31	7/26 at 100.00	BB	\$3,241,023
1,000	5.000%, 7/01/36	7/26 at 100.00	BB	1,037,840
555	5.000%, 7/01/41	7/26 at 100.00	BB	571,889
195	5.000%, 7/01/46	7/26 at 100.00	BB	200,394
	California Municipal Finance Authority, Education Revenue Bonds, American Heritage Foundation Project, Series 2016A:			
260	5.000%, 6/01/36	6/26 at 100.00	BBB-	283,803
435	5.000%, 6/01/46	6/26 at 100.00	BBB-	469,400
2,335	California Municipal Finance Authority, Revenue Bonds, Eisenhower Medical Center, Series 2010A, 5.750%, 7/01/40	7/20 at 100.00	Baa2	2,649,758
4,500	California Pollution Control Financing Authority, Water Furnishing Revenue Bonds, San Diego County Water Authority Desalination Project Pipeline, Series 2012, 5.000%, 11/21/45	10/17 at 100.00	Baa3	4,507,830
2,050	California Public Finance Authority, Revenue Bonds, Henry Mayo Newhall Hospital, Series 2017, 5.000%, 10/15/47	10/26 at 100.00	BBB-	2,241,142
735	California School Finance Authority, Charter School Revenue Bonds, Downtown College Prep - Obligated Group, Series 2016, 5.000%, 6/01/46	6/26 at 100.00	N/R	747,135
715	California School Finance Authority, Charter School Revenue Bonds, Rocketship Education - Obligated Group, Series 2016A, 5.000%, 6/01/36	6/25 at 100.00	N/R	730,759
895	California School Finance Authority, Charter School Revenue Bonds, Rocketship Education - Obligated Group, Series 2017A, 5.125%, 6/01/47	6/26 at 100.00	N/R	913,876
80	California State, General Obligation Bonds, Series 2002, 5.000%, 10/01/32 - NCFG Insured	10/17 at 100.00	AA-	80,235
5	California State, General Obligation Bonds, Series 2004, 5.000%, 4/01/31 - AMBAC Insured	10/17 at 100.00	AA-	5,015
	California State, General Obligation Bonds, Various Purpose Series 2010:			
3,500	5.250%, 3/01/30	3/20 at 100.00	AA-	3,870,335
10,000	5.500%, 11/01/35	11/20 at 100.00	AA-	11,345,100
12,710	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2014A, 5.500%, 12/01/54	12/24 at 100.00	BB	13,986,974
66,105	California Statewide Communities Development Authority, California, Revenue Bonds, Loma Linda University Medical Center, Series 2016A, 5.250%, 12/01/56	6/26 at 100.00	BB	72,148,319
4,000	California Statewide Communities Development Authority, Revenue Bonds, Huntington Memorial Hospital, Refunding Series 2014B, 4.000%, 7/01/39	7/24 at 100.00	A-	4,082,360
7,000	California Statewide Communities Development Authority, Revenue Bonds, Sutter Health, Series 2011A, 6.000%, 8/15/42	8/20 at 100.00	AA-	7,950,180

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	California Statewide Community Development Authority, Revenue Bonds, Daughters of Charity Health System, Series 2005A:			
1,535	5.750%, 7/01/30 (5)	10/17 at 100.00	CCC	1,532,145
4,430	5.750%, 7/01/35 (5)	10/17 at 100.00	CCC	4,352,032
3,600	California Statewide Community Development Authority, Revenue Bonds, St. Joseph Health System, Series 2007A, 5.750%, 7/01/47 (Pre-refunded 7/01/18) – FGIC Insured	7/18 at 100.00	AA- (6)	3,764,628
5,000	Clovis Unified School District, Fresno County, California, General Obligation Bonds, Series 2001A, 0.000%, 8/01/25 – NPPFG Insured (ETM)	No Opt. Call	A3 (6)	4,280,500

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Principal Amount (000)	Description (1)	Optional Call Provisions (2)	Ratings (3)	Value
	California (continued)			
\$ 3,400	Coachella Valley Unified School District, Riverside County, California, General Obligation Bonds, Election 2005 Series 2010C, 0.000%, 8/01/33 – AGM Insured	No Opt. Call	A2	\$1,909,066
14,375	Corona-Norco Unified School District, Riverside County, California, General Obligation Bonds, Capital Appreciation, Election 2006 Refunding Series 2009C, 0.000%, 8/01/39 – AGM Insured	No Opt. Call	AA	5,875,494
2,615	El Rancho Unified School District, Los Angeles County, California, General Obligation Bonds, Election 2010 Series 2011A: 0.000%, 8/01/31 – AGM Insured (7)	8/28 at 100.00	A1	2,541,283
3,600	0.000%, 8/01/34 – AGM Insured (7)	8/28 at 100.00	A1	3,481,884
3,960	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Bonds, Refunding Senior Lien Series 2015A: 0.000%, 1/15/34 – AGM Insured	No Opt. Call	BBB-	2,091,751
5,000	0.000%, 1/15/35 – AGM Insured	No Opt. Call	BBB-	2,526,050
910	Foothill/Eastern Transportation Corridor Agency, California, Toll Road Revenue Bonds, Refunding Series 2013A: 0.000%, 1/15/42	1/31 at 100.00	BBB-	785,194
3,610	5.750%, 1/15/46	1/24 at 100.00	BBB-	4,158,215
6,610	6.000%, 1/15/49	1/24 at 100.00	BBB-	7,630,386
2,425	Fullerton Public Financing Authority, California, Tax Allocation Revenue Bonds, Series 2005, 5.000%, 9/01/27 – AMBAC Insured	9/17 at 100.00	A	2,432,906
25,950	Golden State Tobacco Securitization Corporation, California, Tobacco Settlement Asset-Backed Bonds, Series 2007A-1: 5.000%, 6/01/33	10/17 at 100.00	B3	25,950,000
8,565	5.125%, 6/01/47	10/17 at 100.00	B-	8,459,907
8,830	5.750%, 6/01/47	10/17 at 100.00	B3	8,830,000
5,600	Kern Community College District, California, General Obligation Bonds, Safety, Repair & Improvement, Election 2002 Series 2006: 0.000%, 11/01/24 – AGM Insured	No Opt. Call	AA	4,834,760
5,795	0.000%, 11/01/25 – AGM Insured	No Opt. Call	AA	4,819,412