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PIONEER MUNICIPAL HIGH INCOME TRUST
Form N-Q
March 31, 2015

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS
OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-21321

Pioneer Municipal High Income Trust
(Exact name of registrant as specified in charter)

60 State Street, Boston, MA 02109
(Address of principal executive offices) (ZIP code)

Terrence J. Cullen, Pioneer Investment Management, Inc.,
60 State Street, Boston, MA 02109
(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: April 30

Date of reporting period: January 31, 2015

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 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 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. ss. 3507.

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ITEM 1. Schedule of Investments.

File the schedules as of the close of the reporting period as set forth in ss. 210.12-12 12-14 of Regulation S-X [17 CFR 210.12-12 12-14]. The schedules need not be audited.

Pioneer Municipal
High Income Trust

NQ | January 31, 2015

Ticker Symbol: MHI

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Schedule of Investments | 1/31/15 (unaudited)

Principal Amount USD (\$)	Value
TAX EXEMPT OBLIGATIONS - 129.0% of Net Assets (f)	
Alabama - 1.5%	
4,500,000	Huntsville-Redstone Village Special Care Facilities Financing Authority Nursing Home Revenue, 5.5%, 1/1/43
	\$ 4,531,500
Arizona - 0.0%†	
24,000	Pima County Industrial Development Authority Education Revenue, 6.75%, 7/1/31
	\$ 24,140
California - 11.4%	
3,000,000(a)	Abag Finance Authority for Nonprofit Corp., Revenue, 5.75%, 7/1/37
	\$ 3,130,770
1,450,000	California Enterprise Development Authority Recovery Zone Facility Revenue, 8.5%, 4/1/31
	1,697,443
1,000,000	California Municipal Finance Authority, 5.75%, 7/1/30
	1,063,160
5,000,000	California Pollution Control Financing Authority, 5.0%, 7/1/37 (144A)
	5,192,450
1,740,000	California School Finance Authority, 7.375%, 10/1/43
	2,050,781
1,400,000	California Statewide Communities Development Authority, 5.625%, 11/1/33
	1,519,126
568,006(b)(c)	California Statewide Communities Development Authority Environmental Facilities Revenue, 9.0%, 12/1/38
	6
20,000,000(d)	Inland Empire Tobacco Securitization Authority Revenue, 6/1/36
	3,878,000
7,885,000(e)	Lehman Municipal Trust Receipts Revenue, RIB, 11.147%, 9/20/28 (144A)
	10,568,975
2,000,000(g)	Los Angeles Community College District, General Obligation, 4.0%, 8/1/39
	2,169,460
2,000,000	Tobacco Securitization Authority of Northern California Revenue, 5.375%, 6/1/38
	1,749,860
3,000,000	Tobacco Securitization Authority of Southern California Revenue, 5.0%, 6/1/37
	2,574,030
	\$ 35,594,061
Colorado - 1.5%	
1,500,000	Colorado Educational & Cultural Facilities Authority, 8.0%, 9/1/43
	\$ 1,550,535

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2,000,000	Colorado Health Facilities Authority Revenue, 5.25%, 5/15/42	2,156,520
1,000,000	Kremmling Memorial Hospital District Certificate of Participation, 7.125%, 12/1/45	836,480
		\$ 4,543,535
	Connecticut - 7.6%	
1,000,000	Hamden Connecticut Facility Revenue, 7.75%, 1/1/43	\$ 1,036,970
10,335,000(e)	Lehman Municipal Trust Receipts Revenue, RIB, 11.889%, 8/21/35	12,187,549
5,000,000	Mohegan Tribe of Indians Gaming Authority, 6.25%, 1/1/31	5,000,650
5,000,000(g)	State of Connecticut, General Obligation, 4.0%, 9/1/30	5,554,600
		\$ 23,779,769
	District of Columbia - 4.0%	
5,000,000	District of Columbia Tobacco Settlement Financing Corp., 6.5%, 5/15/33	\$ 6,427,550
6,000,000	District of Columbia Tobacco Settlement Financing Corp., 6.75%, 5/15/40	6,001,200
		\$ 12,428,750
	Florida - 6.4%	
1,500,000	Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/41	\$ 1,762,710
1,500,000	Alachua County Health Facilities Authority Revenue, 8.125%, 11/15/46	1,758,750
500,000	Capital Trust Agency Revenue Bonds, 7.75%, 1/1/41	489,680
5,000,000	Florida's Turnpike Enterprise, 4.0%, 7/1/34	5,407,550
1,000,000(a)	Hillsborough County Industrial Development Authority Revenue, 8.0%, 8/15/32	1,315,820
2,260,000(b)	Liberty County Subordinate Revenue, 8.25%, 7/1/28	504,613
2,500,000	Miami-Dade County Florida Aviation Revenue, 5.5%, 10/1/41	2,900,875
2,250,000(e)	St. Johns County Industrial Development Authority Revenue, 1.344%, 1/1/49	835,493
832,581(b)	St. Johns County Industrial Development Authority Revenue, 2.5%, 1/1/49	8
5,000,000	Tallahassee Health Facilities Revenue, 6.375%, 12/1/30	5,019,800
		\$ 19,995,299
	Georgia - 5.0%	
4,240,000(e)	Atlanta Georgia Water and Wastewater Revenue, RIB, 10.869%, 11/1/43 (144A)	\$ 4,279,729
2,500,000	Clayton County Development Authority Revenue, 8.75%, 6/1/29	3,143,325
3,445,000	Clayton County Development Authority Revenue, 9.0%, 6/1/35	3,520,032
4,000,000	Private Colleges & Universities Authority Revenue, 5.0%, 10/1/43	4,703,360

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	\$ 15,646,446
Idaho - 1.6%	
5,000,000 Power County Industrial Development Corp., Revenue, 6.45%, 8/1/32	\$ 5,010,750
Illinois - 14.2%	

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Schedule of Investments | 1/31/15 (unaudited)

1,827,000(d) Illinois Finance Authority Revenue, 11/15/52 \$ 162,068

Principal
Amount
USD (\$)

Value

Illinois - (continued)	
2,087,000(e) Illinois Finance Authority Revenue, 4.0%, 11/15/52	\$ 1,335,075
3,865,000 Illinois Finance Authority Revenue, 6.0%, 8/15/38	4,430,991
2,000,000 Illinois Finance Authority Revenue, 6.0%, 8/15/39	2,370,480
580,000 Illinois Finance Authority Revenue, 6.375%, 5/15/17	581,386
2,500,000 Illinois Finance Authority Revenue, 6.5%, 4/1/39	2,789,550
240,000 Illinois Finance Authority Revenue, 7.0%, 11/15/17	240,122
235,000 Illinois Finance Authority Revenue, 7.0%, 5/15/18	235,559
1,700,000 Illinois Finance Authority Revenue, 7.625%, 5/15/25	1,908,420
600,000 Illinois Finance Authority Revenue, 7.75%, 5/15/30	666,114
2,000,000 Illinois Finance Authority Revenue, 8.0%, 5/15/40	2,214,060
3,200,000 Illinois Finance Authority Revenue, 8.0%, 5/15/46	3,527,136
2,000,000 Illinois Finance Authority Revenue, 8.125%, 2/15/40	2,150,140
2,500,000 Illinois Finance Authority Revenue, 8.25%, 2/15/46	2,694,300
16,880,000(e) Metropolitan Pier & Exposition Authority Dedicated State Tax Revenue, 0.00%, 6/15/22	17,902,253
1,250,000 Southwestern Illinois Development Authority Revenue, 5.625%, 11/1/26	1,082,337
	\$ 44,289,991
Indiana - 1.7%	
250,000 City of Carmel Indiana Nursing Home Revenue, 7.0%, 11/15/32	\$ 282,602
750,000 City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/42	844,005
500,000 City of Carmel Indiana Nursing Home Revenue, 7.125%, 11/15/47	560,965
3,570,000 Vigo County Hospital Authority Revenue, 5.8%, 9/1/47 (144A)	3,752,606
	\$ 5,440,178
Kentucky - 1.9%	

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5,000,000	Kentucky Economic Development Finance Authority Revenue, 6.375%, 6/1/40	\$ 5,874,650
	Louisiana - 3.1%	
2,260,000	Jefferson Parish Hospital Service District No. 2, 6.375%, 7/1/41	\$ 2,673,354
1,500,000	Louisiana Local Government Environmental Facilities & Community Development Authority Revenue, 6.75%, 11/1/32	1,724,280
5,000,000	Louisiana Public Facilities Authority Revenue, 5.5%, 5/15/47	5,290,900
		\$ 9,688,534
	Maine - 2.2%	
1,500,000	Maine Health & Higher Educational Facilities Authority Revenue, 7.5%, 7/1/32	\$ 1,839,330
4,480,000	Maine Turnpike Authority Revenue, 5.0%, 7/1/42	5,178,298
		\$ 7,017,628
	Maryland - 0.5%	
1,500,000	Maryland Health & Higher Educational Facilities Authority Revenue, 6.75%, 7/1/44	\$ 1,656,285
	Massachusetts - 4.9%	
7,100,000	Massachusetts Development Finance Agency Revenue, 5.75%, 1/1/42	\$ 9,535,655
595,000	Massachusetts Educational Financing Authority Revenue, 6.0%, 1/1/28	635,531
4,500,000(b)(c)	Massachusetts Health & Educational Facilities Authority Revenue, 6.5%, 1/15/38	11,610
5,000,000	Massachusetts Health & Educational Facilities Authority Revenue, 6.75%, 10/1/33	5,019,850
		\$ 15,202,646
	Michigan - 3.4%	
895,000	Doctor Charles Drew Academy Certificate of Participation, 5.7%, 11/1/36	\$ 179,036
2,000,000	Kent Hospital Finance Authority Revenue, 6.25%, 7/1/40	2,023,520
2,640,000	Michigan State University Revenue, 5.0%, 8/15/41	3,093,816
6,100,000	Michigan Tobacco Settlement Finance Authority Revenue, 6.0%, 6/1/48	5,277,537
		\$ 10,573,909
	Minnesota - 0.8%	
2,000,000	Port Authority of the City of Bloomington, Minnesota Recovery Zone Facility Revenue, 9.0%, 12/1/35	\$ 2,349,960
	Montana - 0.0%†	
1,600,000(b)(c)	Two Rivers Authority, Inc., Project Revenue, 7.375%, 11/1/27	\$ 126,112

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New Jersey - 1.9%

3,000,000	New Jersey Economic Development Authority Revenue, 5.25%, 9/15/29	\$ 3,250,320
2,500,000	New Jersey Economic Development Authority Revenue, 5.75%, 9/15/27	2,786,700
		\$ 6,037,020

New Mexico - 1.3%

1,500,000	Otero County New Mexico Project Revenue, 6.0%, 4/1/23	\$ 1,385,310
2,960,000	Otero County New Mexico Project Revenue, 6.0%, 4/1/28	2,576,917
		\$ 3,962,227

Principal

Amount

USD (\$)

Value

New York - 9.6%

2,000,000	Chautauqua County Capital Resource Corp., Revenue, 8.0%, 11/15/30	\$ 2,107,340
2,000,000	Hempstead Local Development Corp., Revenue, 5.75%, 7/1/39	2,271,260
2,000,000		