

PIMCO NEW YORK MUNICIPAL INCOME FUND III  
Form N-Q  
February 23, 2010

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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:** 811-21189

**Registrant Name:** PIMCO New York Municipal Income Fund III

**Address of Principal Executive Offices:** 1345 Avenue of the Americas,  
New York, NY 10105

**Name and Address of Agent for Service:** Lawrence G. Altadonna  
1345 Avenue of the Americas,  
New York, NY 10105

**Registrant's telephone number,  
including area code:** 212-739-3371

**Date of Fiscal Year End:** September 30, 2010

**Date of Reporting Period:** December 31, 2009

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 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, 100 F Street, NE, Washington, DC 20549-2001. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

**Item 1. Schedule of Investments****PIMCO New York Municipal Income Fund III Schedule of Investments**

December 31, 2009 (unaudited)

Principal Amount (000s)		Credit Rating (Moody s/S&P)	Value*
<b>NEW YORK MUNICIPAL BONDS &amp; NOTES 90.8%</b>			
\$ 1,000	Brooklyn Arena Local Dev. Corp. Rev., Barclays Center Project, 6.375%, 7/15/43	Baa3/BBB-	\$ 1,012,420
755	Dutchess Cnty. Industrial Dev. Agcy. Rev., Elant Fishkill, Inc., 5.25%, 1/1/37, Ser. A	NR/NR	480,769
800	East Rochester Housing Auth. Rev., St. Mary s Residence Project, 5.375%, 12/20/22, Ser. A (GNMA)	NR/AAA	851,944
1,810	Liberty Dev. Corp. Rev., Goldman Sachs Headquarters, 5.25%,10/1/35	A1/A	1,797,221
2,400	5.50%,10/1/37	A1/A	2,444,520
1,000	Long Island Power Auth. Rev., 5.00%, 9/1/27, Ser. C	A3/A-	1,019,650
1,500	5.75%, 4/1/39, Ser. A	A3/A-	1,628,490
6,220	Metropolitan Transportation Auth. Rev., 5.00%, 11/15/32, Ser. A (FGIC-NPFGC)	A2/A	6,326,486
500	5.00%, 11/15/34, Ser. B	NR/AA	517,685
200	Mortgage Agcy. Rev., 4.75%, 10/1/27, Ser. 128	Aa1/NR	200,602
600	New York City Industrial Dev. Agcy. Rev., Queens Baseball Stadium, 6.50%, 1/1/46	Aa3/AAA	674,670
200	Yankee Stadium, 5.00%, 3/1/36 (NPFGC)	Baa1/A	187,254
2,200	7.00%,3/1/49	Aa3/AAA	2,563,792
5,000	New York City Municipal Water Finance Auth. Water & Sewer Rev., Second Generation Resolutions, 4.75%, 6/15/35, Ser. DD (c)	Aa3/AA+	5,031,000
1,500	5.00%, 6/15/39, Ser. GG-1	Aa3/AA+	1,557,135
4,000	New York City Trust for Cultural Res. Rev., Wildlife Conservation Society, 5.00%, 2/1/34 (FGIC-NPFGC)	Aa3/AA-	4,073,480
2,695	New York City, GO, 5.00%, 3/1/33, Ser. I	Aa3/AA	2,731,679
1,000	Niagara Falls Public Water Auth. Water & Sewer Rev., 5.00%, 7/15/34, Ser. A (NPFGC)	Baa1/A	1,015,470
1,000	State Dormitory Auth. Rev., 5.00%, 3/15/38, Ser. A	NR/AAA	1,034,190
2,250	Jewish Board Family & Children, 5.00%, 7/1/33 (AMBAC)	NR/BBB	1,947,803
2,000	Kaleida Health Hospital, 5.05%, 2/15/25 (FHA)	NR/AAA	2,045,260
1,040	Long Island Univ., Ser A (Radian), 5.00%,9/1/23	Baa3/NR	1,041,206
2,000	5.00%,9/1/32	Baa3/NR	1,936,640
3,000	Lutheran Medical Hospital, 5.00%, 8/1/31 (FHA-NPFGC)	Baa1/A	3,014,280
3,085	New York Univ., 5.25%, 7/1/48, Ser. A	Aa3/AA-	3,148,458
5,850	North General Hospital, 5.00%, 2/15/25	NR/AA-	5,950,679

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700	North Shore-Long Island Jewish Health System, 5.50%, 5/1/37, Ser. A	Baa1/A-	700,952
1,000	School Dist. Financing, 5.00%, 10/1/30, Ser. D (NPFGC)	A2/A+	1,031,640
1,250	Skidmore College, 5.00%, 7/1/28 (FGIC-NPFGC)	A1/NR	1,298,263
3,740	St. Barnabas Hospital, 5.00%, 2/1/31, Ser. A (AMBAC-FHA)	NR/NR	3,755,072
1,200	Teachers College, 5.50%, 3/1/39	A1/NR	1,252,512
620	Winthrop Univ. Hospital Assoc., 5.50%, 7/1/32, Ser. A	Baa1/NR	595,287
2,500	Winthrop-Nassau Univ., 5.75%, 7/1/28	Baa1/NR	2,506,225
2,000	State Environmental Facs. Corp. Rev., 4.75%, 6/15/32, Ser. B	Aa1/AA+	2,042,680
	State Urban Dev. Corp. Rev.,		
3,350	5.00%, 3/15/35, Ser. B	NR/AAA	3,426,581
2,200	5.00%, 3/15/36, Ser. B-1 (c)	NR/AAA	2,278,562
2,000	Triborough Bridge & Tunnel Auth. Rev., 5.25%, 11/15/34, Ser. A-2 (c)	Aa2/AA-	2,101,020
2,000	Warren & Washington Cntys. Industrial Dev. Agcy. Rev., Glens Falls Hospital Project, 5.00%, 12/1/35, Ser. A (FSA)	Aa3/AAA	2,011,160
	Total New York Municipal Bonds & Notes (cost \$73,889,984)		77,232,737

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**PIMCO New York Municipal Income Fund III Schedule of Investments**

December 31, 2009 (unaudited)

Principal Amount (000s)		Credit Rating (Moody s/S&P)	Value*
<b>NEW YORK VARIABLE RATE NOTES (a) 6.0%</b>			
\$ 5,000	State Dormitory Auth. Rev., Rockefeller Univ., 5.00%, 7/1/32, Ser. A-1 (cost \$4,311,293)	Aa1/AAA	\$ 5,116,000
<b>OTHER MUNICIPAL BONDS &amp; NOTES 3.0%</b>			
<b>District of Columbia 0.2%</b>			
175	Tobacco Settlement Financing Corp. Rev., 6.50%, 5/15/33	Baa3/BBB	167,893
<b>Puerto Rico 1.5%</b>			
580	Children s Trust Fund Rev., 5.625%, 5/15/43	Baa3/BBB	493,835
5,000	Sales Tax Financing Corp. Rev., zero coupon, 8/1/54, Ser. A (AMBAC)	Aa3/AA-	282,800
500	5.75%, 8/1/37, Ser. A	A2/A+	520,505
			1,297,140
<b>South Carolina 0.5%</b>			
370	Tobacco Settlement Rev. Management Auth. Rev., 6.375%, 5/15/30, Ser. B	Baa3/BBB	467,088
<b>Washington 0.2%</b>			
135	Tobacco Settlement Auth. Rev., 6.625%, 6/1/32	Baa3/BBB	133,360
<b>U.S. Virgin Islands 0.6%</b>			
500	Public Finance Auth. Rev., 6.00%, 10/1/39	Baa3/NR	501,040
	Total Other Municipal Bonds & Notes (cost \$2,563,532)		2,566,521
<b>SHORT-TERM INVESTMENTS (b) 0.2%</b>			
<b>Corporate Notes 0.2%</b>			
<b>Financial Services 0.2%</b>			
100	International Lease Finance Corp., FRN, 0.482%,5/24/10	B1/BBB+	97,224
100	0.684%,1/15/10	B1/BBB+	99,741
	Total Corporate Notes (cost \$192,475)		196,965

**Total Investments** (cost \$80,957,284) **100.0%**

**\$ 85,112,223**

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**Notes to Schedule of Investments:**

- \* Portfolio securities and other financial instruments for which market quotations are readily available are stated at market value. Market value is generally determined on the basis of last reported sales prices, or if no sales are reported, on the basis of quotes obtained from a quotation reporting system, established market makers, or independent pricing services.

Portfolio securities and other financial instruments for which market quotations are not readily available or for which a development/event occurs that may significantly impact the value of a security, are fair-valued, in good faith, pursuant to procedures established by the Board of Trustees, or persons acting at their discretion pursuant to procedures established by the Board of Trustees. The Fund's investments are valued daily using prices supplied by an independent pricing service or dealer quotations, or by using the last sale price on the exchange that is the primary market for such securities, or the mean between the last quoted bid and ask price for those securities for which the over-the-counter market is the primary market or for listed securities in which there were no sales. Independent pricing services use information provided by market makers or estimates of market values obtained from yield data relating to investments or securities with similar characteristics. Short-term securities maturing in 60 days or less are valued at amortized cost, if their original term to maturity was 60 days or less, or by amortizing their value on the 61st day prior to maturity, if the original term to exceeded 60 days.

The prices used by the Fund to value securities may differ from the value that would be realized if the securities were sold and these differences could be material. The Fund's net asset value is normally determined as of the close of regular trading (normally, 4:00 p.m. Eastern time) on the New York Stock Exchange ( NYSE ) on each day the NYSE is open for business.

- (a) Variable Rate Notes Instruments whose interest rates change on specified date (such as a coupon date or interest payment date) and/or whose interest rates vary with changes in a designated base rate (such as the prime interest rate). The interest rate disclosed reflects the rate in effect on December 31, 2009.
- (b) All or partial amount segregated as collateral for reverse repurchase agreements.
- (c) Residual Interest Bonds held in Trust Securities represent underlying bonds transferred to a separate securitization trust established in a tender option bond transaction in which the Fund acquired the residual interest certificates. These securities serve as collateral in a financing transaction.

**Glossary:**

AMBAC insured by American Municipal Bond Assurance Corp.

FGIC insured by Financial Guaranty Insurance Co.

FHA insured by Federal Housing Administration

FRN Floating Rate Note. The interest rate disclosed reflects the rate in effect on December 31, 2009.

FSA insured by Financial Security Assurance, Inc.

GNMA insured by Government National Mortgage Association

GO General Obligation Bond

NPFGC insured by National Public Finance Guarantee Corporation

NR Not Rated

Radian insured by Radian Guaranty, Inc.

**Open reverse repurchase agreements at December 31, 2009:**

Counterparty	Rate	Trade Date	Maturity Date	Principal & Interest	Principal
Barclays Capital Inc.	0.65%	12/4/09	1/7/10	\$ 188,095	\$ 188,000

The weighted average daily balance of reverse repurchase agreements outstanding during the three months ended December 31, 2009 was \$218,489 at a weighted average interest rate of 0.66%. The total market value of underlying collateral (refer to the Schedule of Investments for positions segregated as collateral for reverse repurchase agreements) for open reverse repurchase agreements at December 31, 2009 was \$196,965.

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**Fair Value Measurements**

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (i.e. the exit price) in an orderly transaction between market participants. The three levels of the fair value hierarchy are described below:

Level 1 quoted prices in active markets for identical investments that the Fund has the ability to access

Level 2 valuations based on other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.) or quotes from inactive exchanges

Level 3 valuations based on significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments)

An investment asset's or liability's level within the fair value hierarchy is based on the lowest level input, individually or in the aggregate, that is significant to fair value measurement. The objective of fair value measurement remains the same even when there is a significant decrease in the volume and level of activity for an asset or liability and regardless of the valuation technique used.

The valuation techniques used by the Fund to measure fair value during the three months ended December 31, 2009 maximized the use of observable inputs and minimized the use of unobservable inputs.

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

A summary of the inputs used at December 31, 2009 in valuing the Fund's assets and liabilities is listed below:

	Level 1 - Quoted Prices	Level 2 - Other Significant Observable Inputs	Level 3 - Significant Unobservable Inputs	Value at 12/31/09
<b>Investments in Securities Assets</b>				
New York Municipal Bonds & Notes		\$77,232,737		\$77,232,737
New York Variable Rate Notes		5,116,000		5,116,000
Other Municipal Bonds & Notes		2,566,521		2,566,521
Short-Term Investments		196,965		196,965
<b>Total Investments</b>		\$85,112,223		\$85,112,223



**Item 2. Controls and Procedures**

(a) The registrant's President & Chief Executive Officer and Treasurer, Principal Financial & Accounting Officer have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Act (17 CFR 270.30a -3(c))), are effective based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of this document.

(b) There were no significant changes in the registrant's internal controls over financial reporting (as defined in Rule 30a-3(d) under the Act (17 CFR 270.30a -3(d))) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

**Item 3. Exhibits**

(a) Exhibit 99.302 Cert. Certification pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

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**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: PIMCO New York Municipal Income Fund III

By /s/ Brian S. Shlissel

President & Chief Executive Officer

Date: February 23, 2010

By /s/ Lawrence G. Altadonna

Treasurer, Principal Financial & Accounting Officer

Date: February 23, 2010

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 /s/ Brian S. Shlissel

President & Chief Executive Officer

Date: February 23, 2010

By /s/ Lawrence G. Altadonna

Treasurer, Principal Financial & Accounting  
Officer

Date: February 23, 2010