

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND  
Form SC 13G/A  
March 10, 2010

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

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(AMENDMENT NO. 1)\*

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

-----  
(Name of Issuer)

Auction Rate Preferred

-----  
(Title of Class of Securities)

67061E-20-3  
(See Item 2 (e))

-----  
(CUSIP Number)

February 28, 2010

-----  
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

/X/ Rule 13d-1(b)  
/ / Rule 13d-1(c)  
/ / Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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(See Item 2(e))

(1) NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Citigroup Global Markets Inc.

(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) / /  
(b) / /

(3) SEC USE ONLY

(4) CITIZENSHIP OR PLACE OF ORGANIZATION New York

NUMBER OF SHARES	(5) SOLE VOTING POWER	0
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BENEFICIALLY OWNED BY	(6) SHARED VOTING POWER	48
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EACH REPORTING	(7) SOLE DISPOSITIVE POWER	0
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PERSON WITH:	(8) SHARED DISPOSITIVE POWER	48
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(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 48

(10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) / /

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.2%

(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS) BD

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(See Item 2(e))

(1) NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Citigroup Financial Products Inc.

(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) / /

(b) / /

(3) SEC USE ONLY

(4) CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF	(5) SOLE VOTING POWER	0
-----------	-----------------------	---

SHARES

BENEFICIALLY	(6) SHARED VOTING POWER	48
--------------	-------------------------	----

OWNED BY

EACH	(7) SOLE DISPOSITIVE POWER	0
------	----------------------------	---

REPORTING

PERSON	(8) SHARED DISPOSITIVE POWER	48
--------	------------------------------	----

WITH:

(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	48
--	----

(10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) / /

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	3.2%
--	------

(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)	CO
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(See Item 2(e))

(1) NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Citigroup Global Markets Holdings Inc.

(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) / /

(b) / /

(3) SEC USE ONLY

(4) CITIZENSHIP OR PLACE OF ORGANIZATION

New York

NUMBER OF	(5) SOLE VOTING POWER	0
SHARES		
BENEFICIALLY	(6) SHARED VOTING POWER	48
OWNED BY		
EACH	(7) SOLE DISPOSITIVE POWER	0
REPORTING		
PERSON	(8) SHARED DISPOSITIVE POWER	48
WITH:		

(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 48

(10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) / /

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.2%

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(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

HC

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(See Item 2(e))

(1) NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Citigroup Inc.

(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) / /

(b) / /

(3) SEC USE ONLY

(4) CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF

(5) SOLE VOTING POWER

0

SHARES

BENEFICIALLY

(6) SHARED VOTING POWER

48\*

OWNED BY

EACH

(7) SOLE DISPOSITIVE POWER

0

REPORTING

PERSON

(8) SHARED DISPOSITIVE POWER

48\*

WITH:

(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

48\*

(10) CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) / /

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

3.2%\*

-----  
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

HC  
-----

\* Includes shares held by the other reporting persons.

Item 1(a). Name of Issuer:

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Item 1(b). Address of Issuer's Principal Executive Offices:

333 West Wacker Drive  
Chicago, IL 60606

Item 2(a). Name of Person Filing:

Citigroup Global Markets Inc. ("CGM")  
Citigroup Financial Products Inc. ("CFP")  
Citigroup Global Markets Holdings Inc. ("CGM Holdings")  
Citigroup Inc. ("Citigroup")

Item 2(b). Address of Principal Office or, if none, Residence:

The address of the principal office of each of  
CGM, CFP and CGM Holdings is:

388 Greenwich Street  
New York, NY 10013

The address of the principal office of Citigroup is:

399 Park Avenue  
New York, NY 10043

Item 2(c). Citizenship or Place of Organization:

CGM and CGM Holdings are New York corporations.

CFP and Citigroup are Delaware corporations.

Item 2(d). Title of Class of Securities:

Auction Rate Preferred

Item 2(e). CUSIP Number:

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Item 3. If This Statement Is Filed Pursuant to Sections 240.13d-1(b) or  
240.13d-2(b) or (c), Check Whether the Person Filing Is a(n):

- (a)  Broker or dealer registered under Section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance company as defined in Section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d)  Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e)  Investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E);
- (f)  Employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F);
- (g)  Parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G);
- (h)  Savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  Church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with Section 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with Section 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Section 240.13d-1(b)(1)(ii)(J), please specify the type of institution: \_\_\_\_\_ .

Item 4. Ownership. (as of February 28, 2010)

The number of shares reported herein represents combined holdings in multiple series of auction rate preferred securities of the issuer, which are treated herein as one class of securities in accordance with the Securities and Exchange Commission's Auction Rate Securities -- Global Exemptive Relief no-action letter issued on September 22, 2008.

- (a) Amount beneficially owned: See item 9 of cover pages
- (b) Percent of class: See item 11 of cover pages
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote:
  - (ii) Shared power to vote or to direct the vote:
  - (iii) Sole power to dispose or to direct the disposition of:
  - (iv) Shared power to dispose or to direct the disposition of:

See Items 5-8 of cover pages

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [X].

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

CFP is the sole stockholder of CGM. CGM Holdings is the sole stockholder of CFP. Citigroup is the sole stockholder of CGM Holdings.

Item 8. Identification and Classification of Members of the Group.

Not Applicable.

Item 9. Notice of Dissolution of Group.

Not Applicable.

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Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: March 10, 2010

CITIGROUP GLOBAL MARKETS INC.



By: /s/ Ali L. Karshan

-----  
Name: Ali L. Karshan  
Title: Assistant Secretary

CITIGROUP FINANCIAL PRODUCTS INC.

By: /s/ Ali L. Karshan

-----  
Name: Ali L. Karshan  
Title: Assistant Secretary

CITIGROUP GLOBAL MARKETS HOLDINGS INC.

By: /s/ Ali L. Karshan

-----  
Name: Ali L. Karshan  
Title: Assistant Secretary

CITIGROUP INC.

By: /s/ Ali L. Karshan

-----  
Name: Ali L. Karshan  
Title: Assistant Secretary

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EXHIBIT INDEX TO SCHEDULE 13G  
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EXHIBIT 1  
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Agreement among CGM, CFP, CGM Holdings and Citigroup as to joint filing of  
Schedule 13G