

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND
Form SC 13G/A
January 27, 2012

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549 SCHEDULE 13G/A
Under the Securities Exchange Act of 1934
(Amendment No. 1) Nuveen Massachusetts Premium Income Municipal Fund (NMT)

(Name of Issuer) MuniFund Term Preferred Shares

(Title of Class of Securities) 67061E302

(CUSIP Number) December 31, 2011

(Date of Event which Requires Filing of this Statement)

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

Rule 13d-1(b)(4)

Rule 13d-1(c)(4)

Rule 13d-1(d)(4)

CUSIP No. 67061E302

1. Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only). Karpus Management, Inc., d/b/a Karpus Investment Management
I.D. #16-1290558

2. Check the Appropriate Box if a Member of a Group (See Instructions)

- (a) 127
(b) 32 & 32X
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3. SEC Use Only

4. Citizenship or Place of Organization New York

Number of Shares Beneficially Owned by Each reporting Person With:

5. Sole Voting Power 174,586 **6. Shared Voting Power** N/A **7. Sole Dispositive Power** 174,586 **8. Shared Dispositive Power** N/A

9. Aggregate Amount Beneficially Owned by Each Reporting Person 174,586

10. Check if the Aggregate Amount in Row 9 Excludes Certain Shares (See Instructions) N/A

11. Percent of Class Represented by Amount in Row 9 8.64%

12. Type of Reporting Person (See Instructions) IA

(i) **Sole power to vote or to direct the vote:** 174,586 shares (ii) **Shared power to vote or to direct the vote:** N/A (iii) **Sole power to dispose or to direct the disposition of:** 174,586 shares (iv) **Shared power to dispose or to direct the disposition of:** N/A **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: **. Item 6. Ownership of More than Five Percent on Behalf of Another Person.** Accounts managed by KIM (the "Accounts") have the right to receive all dividends from, and any proceeds from the sale of the shares. None of the Accounts has an interest in shares constituting more than 5% of the shares outstanding. **Item 7. Identification and Classification of the Subsidiary Which Acquired the Security being Reported on by the Parent Holding Company.** Not applicable. **Item 8. Identification and Classification of Members of the Group.** Not applicable. **Item 9. Notice of Dissolution of Group.** Not applicable. **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.

Karpus Management, Inc.

By: /s/
Name: Sharon Thornton
Title: Senior Director of Investments
Date: January 27, 2012