

NUVEEN MASSACHUSETTS PREMIUM INCOME MUNICIPAL FUND

Form SC 13G

February 04, 2011

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549 SCHEDULE 13G

Under the Securities Exchange Act of 1934

Nuveen Massachusetts Premium Income Municipal Fund (NMT)

(Name of Issuer) MuniFund Term Preferred Shares

(Title of Class of Securities) 67061E302

(CUSIP Number) December 31, 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:

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 X
-

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 194,600 **6. Shared Voting Power** N/A **7. Sole Dispositive Power** 194,600 **8. Shared Dispositive Power** N/A

9. Aggregate Amount Beneficially Owned by Each Reporting Person 194,600

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) 9.63%

12. Type of Reporting Person (See Instructions) IA

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Item 1.

(a) **The Name of the Issuer is** Nuveen Massachusetts Premium Income Municipal Fund (b) **The Address of the Issuer** Nuveen Funds, 333 West Wacker Drive, Chicago, IL 60606. **Item 2.**

(a) **The name of the Person Filing is** Karpus Management, Inc., d/b/a Karpus Investment Management “KIM”), George W. Karpus, President, Director and controlling stockholder, Jo Ann Van Degriff, Partner Emeritus. (b) **The address of KIM** 183 Sully’s Trail, Pittsford, New York 14534. (c) **Citizenship** Each of the Principals is a United States citizen. KIM is a New York corporation. (d) **Title of Class of Securities** Munifund Term Preferred Shares (e) **CUSIP Number** 67061E302 **Item 3.** If this statement is filed pursuant to § 240.13d – 1 (b) or 240.13d – 2 (b) or (c), check whether the person filing is a:

(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) (6) 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. 80 – a).

(e) ~~X~~ **An investment adviser in accordance with § 240.13d– 1 (b) (1) (ii) (E**

(f) _____ An employee benefit plan or endowment fund in accordance with § 240.13d– 1 (b) (1) (ii) (F). (g) _____ A parent holding company or control person in accordance with § 240.13d– 1 (b) (1) (ii) (G). (h) _____ A savings association as defined in Section 3 (b) of the Federal Deposit Insurance Act (12 U.S. C. 1813). (i) _____ A 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) _____ Group, in accordance with § 240.13 – 1 (b) (1) (ii) (J). **Item 4.** (a) **Amount beneficially owned** 194,600 shares (b) **Percent of class** 9.63% (c) **Number of shares as to which the person has**

Sole power to vote or to direct the vote 194,600 shares Shared power to vote or to direct the vote
N/A Sole power to dispose or to direct the disposition of 194,600 shares 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 **143. 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: Cody B. Bartlett Jr., CFA
Title: Managing Director of Investments
Date: February 4, 2011