

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
 Form 4
 August 10, 2011

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 WEST STEPHEN

2. Issuer Name and Ticker or Trading Symbol
 PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST [MAV]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 60 STATE ST
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 08/09/2011

____ Director
 ____ Officer (give title below) 10% Owner
 ____ Other (specify below)
 Trustee

BOSTON, MA 02109
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	Amount				(A) or (D)
Common Shares	08/09/2011	08/09/2011	P			300	\$ 13.09	300	D	
Common Shares	08/09/2011	08/09/2011	P			2,900	\$ 13.11	3,200	D	
Common Shares	08/09/2011	08/09/2011	P			400	\$ 13.13	3,600	D	
Common Shares	08/09/2011	08/09/2011	P			100	\$ 13.095	3,700	D	
Common Shares	08/09/2011	08/09/2011	P			100	\$ 13.234	3,800	D	

Common Shares 08/09/2011 08/09/2011 P 1,876 A \$ 13.33 5,676 D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (Instr. 5)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
WEST STEPHEN 60 STATE ST BOSTON, MA 02109				Trustee

Signatures

Jean M. Bradley - Chief Compliance Officer, by Power of Attorney
 **Signature of Reporting Person
 08/10/2011
 Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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