

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form 3

January 28, 2014

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIESFiled 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 *

MAYER MARC O

(Last) (First) (Middle)

PIONEER
INVESTMENTS, 60 STATE
STREET

(Street)

BOSTON, MA 02109

(City) (State) (Zip)

2. Date of Event Requiring
Statement(Month/Day/Year)
01/28/20143. Issuer Name and Ticker or Trading Symbol
PIONEER MUNICIPAL HIGH INCOME
ADVANTAGE TRUST [MAV]4. Relationship of Reporting
Person(s) to Issuer5. If Amendment, Date Original
Filed (Month/Day/Year)

(Check all applicable)

____ Director ____ 10% Owner
____ Officer ____X____ Other
(give title below) (specify below)
Trustee6. Individual or Joint/Group
Filing (Check Applicable Line)
X Form filed by One Reporting
Person
____ Form filed by More than One
Reporting Person**Table I - Non-Derivative Securities Beneficially Owned**1. Title of Security
(Instr. 4)2. Amount of Securities
Beneficially Owned
(Instr. 4)3. Ownership
Form:
Direct (D)
or Indirect
(I)
(Instr. 5)4. Nature of Indirect Beneficial
Ownership
(Instr. 5)Reminder: Report on a separate line for each class of securities beneficially
owned directly or indirectly.

SEC 1473 (7-02)

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form displays a
currently valid OMB control number.****Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**1. Title of Derivative Security
(Instr. 4)2. Date Exercisable and
Expiration Date
(Month/Day/Year)3. Title and Amount of
Securities Underlying
Derivative Security
(Instr. 4)
Title4. Conversion
or Exercise
Price of
Derivative
Security5. Ownership
Form of
Derivative
Security:
Direct (D)6. Nature of Indirect
Beneficial Ownership
(Instr. 5)

Date Exercisable	Expiration Date	Amount or Number of Shares	or Indirect (I) (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MAYER MARC O PIONEER INVESTMENTS 60 STATE STREET BOSTON, MA 02109	Â	Â	Â	Trustee

Signatures

Jean M. Bradley - Chief Compliance Officer, by Power of Attorney 01/28/2014

__Signature of Reporting Person

Date

Explanation of Responses:

No securities are beneficially owned

* If the form is filed by more than one reporting person, *see* Instruction 5(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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