

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST
Form N-PX
August 20, 2012

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

FORM N-PX
ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21409

Pioneer Municipal High Income Advantage Trust

(Exact name of registrant as specified in charter)

60 State Street Boston, MA 02109

(Address of principal executive offices)

Terrence J. Cullen
60 State Street
Boston, MA 02109

(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: July 1, 2011 to June 30, 2012

SIGNATURES

Pursuant to the requirements of the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

(Registrant) Pioneer Municipal High Income Advantage Trust

By (Signature and Title) /s/ John F. Cogan, Jr.

John F. Cogan, Jr., President

Date August 20, 2012

===== Pioneer Muni High Income Advantage Trust =====

DELTA AIR LINES, INC.

Ticker: DAL Security ID: 247361702
 Meeting Date: JUN 15, 2012 Meeting Type: Annual
 Record Date: APR 20, 2012

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|----|---|---------|-----------|------------|
| 1 | Elect Director Richard H. Anderson | For | For | Management |
| 2 | Elect Director Edward H. Bastian | For | For | Management |
| 3 | Elect Director Roy J. Bostock | For | For | Management |
| 4 | Elect Director John S. Brinzo | For | For | Management |
| 5 | Elect Director Daniel A. Carp | For | For | Management |
| 6 | Elect Director David G. DeWalt | For | For | Management |
| 7 | Elect Director Mickey P. Foret | For | For | Management |
| 8 | Elect Director Shirley C. Franklin | For | For | Management |
| 9 | Elect Director David R. Goode | For | For | Management |
| 10 | Elect Director Paula Rospud Reynolds | For | For | Management |
| 11 | Elect Director Kenneth C. Rogers | For | For | Management |
| 12 | Elect Director Kenneth B. Woodrow | For | For | Management |
| 13 | Advisory Vote to Ratify Named Executive Officers' Compensation | For | For | Management |
| 14 | Amend Omnibus Stock Plan | For | For | Management |
| 15 | Ratify Auditors | For | For | Management |

 MASSACHUSETTS ST HEALTH & EDL FACS AUTH REV

Ticker: Security ID: 57586CZ99
 Meeting Date: NOV 02, 2011 Meeting Type: Written Consent
 Record Date: OCT 03, 2011

| # | Proposal | Mgt Rec | Vote Cast | Sponsor |
|---|----------|---------|-----------|------------|
| 1 | The Plan | None | For | Management |

===== END NPX REPORT