

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form N-PX

August 26, 2010

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, 2009 to June 30, 2010

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., Chairman and President

Date August 19, 2010

===== PIONEER MUNI HIGH INCOME ADVANTAGE TRUST =====

DELTA AIR LINES, INC.

Ticker: DAL Security ID: 247361702
Meeting Date: JUN 30, 2010 Meeting Type: Annual
Record Date: MAY 3, 2010

#	Proposal	Mgt Rec	Vote Cast	Sponsor
1	Elect Director Richard H. Anderson	For	For	Management
2	Elect Director Edward H. Bastian	For	For	Management

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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 John M. Engler	For	For	Management
7	Elect Director Mickey P. Foret	For	For	Management
8	Elect Director David R. Goode	For	For	Management
9	Elect Director Paula Rosput Reynolds	For	For	Management
10	Elect Director Kenneth C. Rogers	For	For	Management
11	Elect Director Rodney E. Slater	For	For	Management
12	Elect Director Douglas M. Steenland	For	For	Management
13	Elect Director Kenneth B. Woodrow	For	For	Management
14	Ratify Auditors	For	For	Management
15	Provide for Cumulative Voting	Against	For	Shareholder

VALLEY HEALTH SYS CALIF CTFS PARTN

Ticker: Security ID: 919675AK4
Meeting Date: JAN 22, 2010 Meeting Type: Written Consent
Record Date:

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

===== END NPX REPORT