Kayne Anderson MLP Investment CO Form N-PX August 22, 2008

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

FORM N-PX

ANNUAL REPORT OF PROXY VOTING RECORD OF REGISTERED MANAGEMENT INVESTMENT COMPANY							
Investment Company Act file number: 811-21593							
KAYNE ANDERSON MLP INVESTMENT COMPANY							
(Exact name of registrant as specified in charter)							
1800 AVENUE OF THE STARS, SECOND FLOOR LOS ANGELES, CALIFORNIA 90067							
(Address of principal executive offices)							
David J. Shladovsky, Esq. KA Fund Advisors, LLC 1800 Avenue of the Stars, Second Floor Los Angeles, California 90067							
(Name and address of agent for service)							
Registrant's telephone number, including area code: 310-284-6438							
Date of fiscal year-end: November 30							
Date of reporting period: July 1, 2007 - June 30, 2008							
Item 1 - Proxy Voting Record - Attached on behalf of Kayne Anderson MLP Investment Company							

ISSUER	SYMBOL	CUSIP	MEETING DATE	MATTER:
Constellation Energy Partners LLC	CEP	21038E101	11/2/2007	ELECT: Richard Bachmann Richard Langdon John Seitz

RATIFY:

appointment of

PricewaterhouseCoopers LLP as independent accountants

Constellation Energy Partners LLC CEP 21038E101 10/12/2007 APPROVE:

(a) change in terms of class F units to be convertible into one of their common units and (b) the issuance of additional common units upon such

conversion

Genesis Energy, L.P.

371927104 12/18/2007 AMEND: GEL

indenture regarding a direct registration system

AMEND:

indenture regarding asset sales I yes for for

AMEND:

indenture regarding electronic voting

AMEND:

indenture regarding

investments

MarkWest Energy Partners, L.P. MWE

570759100 2/21/2008

APPROVE: plan of redemption and merger by and among MarkWest & MarkWest Hydrocarbon

APPROVE:

issuance of common units of the partnership

APPROVE:

issuance of class A units in the partnership in exchange for the incentive distribution rights and the 2% economic interest of the GP interest in the partnership owned by MarkWest Energy

APPROVE:

the adoption of the 3rd amended and restated agreement of Ltd. Partnership of MarkWest Energy

APPROVE:

adoption of the 08 1-t incentive plan of the partnership

APPROVE:

the adjournment or

				the adjournment or postponement of the special meeting of unit holders, if necessary, or appropriate to solicit more proxies in insufficient votes are rec'd.
MarkWest Hydrocarbon, Inc.	MWP	570762104	2/21/2008	APPROVE: certificate of amendment of the certificate of incorporation of MarkWest Hydrocarbon
				APPROVE: plan of adoption and merger by and among MarkWest Energy Partners and the Corp Dated as of 9/5/07 as such agreement may be amended form time to time
				APPROVE: adjournment or postponement of the special meeting of stockholders if necessary
Dorchester Minerals, L.P.	DMLP	25820R105	5/13/2008	APPOINT: Buford Berry C.W. Russell Ronald Trout
Crosstex Energy, Inc.	XTXI	22765Y104	5/7/2008	ELECT: Barry Davis Robert Murchison
				RATIFY: appointment of KPMG LLP as independent accountants
Magellan Midstream Partners, L.P.	MMP	559080106	5/23/2008	ELECT: James Montague Don Wellendorf
Legacy Reserves LP	LGCY	524707304	5/19/2008	ELECT: Cary Brown Kyle McGraw Dale Brown G. Larry Lawrence William Sullivan William Granberry Kyle Vann
MarkWest Energy Partners, L.P.	MWE	570759100	6/4/2008	ELECT: John Fox Keith Bailey Michael Beatty Charles Dempster Donald Heppermann William Kellstrom Anne Fox Mounsey

William Nicoletti Frank Semple Donald Wolf

RATIFY:

appointment of

Deloitte & Touche LLP as the partnership's independent

public accountants

Copano Energy, L.L.C. CPNO 217202100 5/15/2008 ELECT:

James Crump
Ernie Denner
John Eckel, Jr.
Scott Griffiths
Michael Johnson
T. William Porter
William Thacker

RATIFY:

appointment of

Deloitte & Touche LLP as independent auditor

Atlas Energy Resources, LLC ATN 049303100 6/13/2008 ELECT:

Edward Cohen
Jonathan Cohen
Mathew Jones
Richard Weber
Walter Jones
Ellen Warren
Bruce Wolf

Magellan Midstream Partners, L.P. MMP 559080106 5/23/2008 ELECT:

James Montague Don Wellendorp

Enterprise Products Partners L.P. EPD 293792107 1/29/2008 APPROVE:

terms of the Enterprise Products 08 1-t incentive plan which provides for equity based awards to consultants and employees of

EPCO

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.

Kayne Anderson MLP Investment Company
(Registrant)

By: /s/ Kevin S. McCarthy

Kevin S. McCarthy

Chairman, President and Chief Executive Officer

(Signature and Title)
Date: August 22, 2008