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

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(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

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Date of fiscal year-end: November 30

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Date of reporting period: July 1, 2007 - June 30, 2008

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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

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				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.	GEL	371927104	12/18/2007	AMEND: 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 l-t incentive plan of the partnership

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				APPROVE: 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	22765¥104	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 l-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