

Kayne Anderson MLP Investment CO  
Form N-PX  
August 19, 2010

OMB APPROVAL

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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)

717 Texas Avenue, Suite 3100 Houston, Texas  
(Address of principal executive offices)

77002  
(Zip code)

David J. Shladovsky, Esq.  
KA Fund Advisors, LLC  
717 Texas Avenue, Suite 3100  
Houston, Texas 77002  
(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, 2009 - June 30, 2010

Form N-PX is to be used by a registered management investment company, other than a small business investment company registered on Form N-5 (ss.ss. 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than August 31 of each year, containing the registrant's proxy voting record for the most recent twelve-month period ended June 30, pursuant to section 30 of the Investment Company Act of 1940 and rule 30b1-4 thereunder (17

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CFR 270.30b1-4). The Commission may use the information provided on Form N-PX in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-PX, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-PX unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss. 3507.

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ITEM 1. PROXY VOTING RECORD.

Disclose the following information for each matter relating to a portfolio security considered at any shareholder meeting held during the period covered by the report and with respect to which the registrant was entitled to vote:

- (a) The name of the issuer of the portfolio security;
  - (b) The exchange ticker symbol of the portfolio security;
  - (c) The Council on Uniform Securities Identification Procedures ("CUSIP") number for the portfolio security;
  - (d) The shareholder meeting date;
  - (e) A brief identification of the matter voted on;
  - (f) Whether the matter was proposed by the issuer or by a security holder;
  - (g) Whether the registrant cast its vote on the matter;
  - (h) How the registrant cast its vote (e.g., for or against proposal, or abstain; for or withhold regarding election of directors); and
  - (i) Whether the registrant cast its vote for or against management.
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SIGNATURES

[See General Instruction F]

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) Kayne Anderson MLP Investment Company

By (Signature and Title)*	/s/ Kevin S. McCarthy Kevin S. McCarthy, Chairman of the Board of Directors,
Date	August 10, 2010 President and Chief Executive Officer

\* Print the name and title of each signing officer under his or her signature.

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Item 1 – Proxy Voting Record – Attached on behalf of Kayne Anderson MLP Investment Company

Issuer	Symbol	CUSIP	Meeting Date	Matter:	Proposed by (I)ssuer or (S)hrhldr	Vote Cast?	How Voted	For/Against Mgmt
CAPITAL PRODUCT PARTNERS	L.P. CPLP	Y11082107	7/23/2009	ELECT: ABEL RASTERHOFF	I	YES	FOR	FOR
				APPROVE: AMENDMENT TO THE COMPANY'S FIRST AMENDED AND RESTATED AGREEMENT OF LIMITED PARTNERSHIP ESTABLISHING THAT IN THE CASE OF ANY MEETING OR LIMITED PARTNERS OF THE COMPANY WHICH HAS BEEN ADJOURNED FOR A SECOND TIME DUE TO ABSENCE OF A QUORUM DURING THE FIRST TWO MEETINGS ALL AS MORE FULLY DESCRIBED IN THE PROXY STATEMENT	I	YES	FOR	AGAINST
MAGELLAN MIDSTREAM PARTNERS,	L.P. MMP	559080106	9/25/2009	APPROVE: THE AGREEMENT RELATING TO SIMPLIFICATION OF CAPITAL STRUCTURE, DATED AS OF MARCH 3, 2009, BY AND AMONG MAGELLAN MIDSTREAM PARTNERS, L.P., MAGELLAN GP, LLC., MMP'S GENERAL PARTNER, MAGELLAN MIDSTREAM HOLDINGS, L.P. AND MAGELLAN MIDSTREAM HOLDINGS GP, LLC, MGG'S GENERAL PARTNER, AS SUCH AGREEMENT MAY BE AMENDED FROM TIME TO	I	YES	FOR	FOR

TIME

APPROVE: I YES FOR FOR  
 THE FIFTH AMENDED AND  
 RESTATED AGREEMENT OF  
 LIMITED PARTNERSHIP OF  
 MMP

APPROVE: I YES FOR FOR  
 ADJOURNMENT OF THE MMP  
 SPECIAL MEETING TO A  
 LATER DATE, IF NECESSARY,  
 TO SOLICIT ADDITIONAL  
 PROXIES IN THE EVENT THAT  
 THERE ARE INSUFFICIENT  
 VOTES IN FAVOR OF ANY OF  
 THE FOREGOING PROPOSALS

MAGELLAN  
 MIDSTREAM  
 HOLDINGS,

L.P. MGG 55907R108 9/25/2009

APPROVE: I YES FOR FOR  
 AGREEMENT RELATING TO  
 SIMPLIFICATION OF CAPITAL  
 STRUCTURE BY AND AMONG  
 MAGELLAN MIDSTREAM  
 PARTNERS, L.P., MAGELLAN  
 GP, LLC., MMP'S GENERAL  
 PARTNER, MAGELLAN  
 MIDSTREAM HOLDINGS, L.P.,  
 AND MAGELLAN  
 MIDSTREAM HOLDINGS GP,  
 LLC, MGG'S GENERAL  
 PARTNER, AS SUCH  
 AGREEMENT MAY BE  
 AMENDED FROM TIME TO  
 TIME.

APPROVE: I YES FOR FOR  
 (A) DIRECT MGG, AS THE  
 SOLE MEMBER OF MMP'S  
 GENERAL PARTNER, TO  
 APPROVE MMP'S AMENDED  
 AND RESTATED AGREEMENT  
 OF LIMITED PARTNERSHIP &  
 ALL OTHER MATTERS UNDER  
 SIMPLIFICATION  
 AGREEMENT THAT,  
 PURSUANT TO THE LIMITED  
 LIABILITY COMPANY  
 AGREEMENT OF MMP'S

GENERAL PARTNER,  
 REQUIRE THE APPROVAL OF  
 MGG; (B) DIRECT MMP'S  
 GENERAL PARTNER TO  
 IMPLEMENT THE MATTERS  
 ABOVE

APPROVE: I YES FOR FOR  
 THE CONTRIBUTIONS

APPROVE: I YES FOR FOR  
 THE LIQUIDATION

APPROVE: I YES FOR FOR  
 THE ADJOURNMENT OF THE  
 MGG SPECIAL MEETING TO A  
 LATER DATE, IF NECESSARY,  
 TO SOLICIT ADDITIONAL  
 PROXIES IN THE EVENT THAT  
 THERE ARE INSUFFICIENT  
 VOTES IN FAVOR OF ANY OF  
 THE FOREGOING PROPOSALS.

ALLIANCE  
 RESOURCE  
 PARTNERS,

L.P. ARLP 01877R108 10/23/2009 APPROVE: I YES FOR FOR  
 AMENDMENT TO THE 2000  
 LONG-TERM INCENTIVE  
 PLAN OF ALLIANCE COAL,  
 LLC, THE OPERATING  
 SUBSIDIARY OF ALLIANCE  
 RESOURCE PARTNERS, L.P.

TEPPCO  
 PARTNERS,

L.P. TPP 872384102 10/23/2009 APPROVE: I YES FOR FOR  
 AGREEMENT AND PLAN OF  
 MERGER DATED AS OF JUNE  
 28, 2009 BY AND AMONG  
 ENTERPRISE PRODUCTS  
 PARTNERS, L.P., ENTERPRISE  
 PRODUCTS GP, LLC,  
 ENTERPRISE SUB B LLC,  
 TEPPCO PARTNERS, L.P. AND  
 TEXAS EASTERN PRODUCTS  
 PIPELINE COMPANY, LLC, AS  
 IT MAY BE AMENDED FROM  
 TIME TO TIME AND THE  
 MERGER CONTEMPLATED BY  
 THE MERGER AGREEMENT

NAVIOS  
MARITIME  
PARTNERS

L.P. NMM Y62267102 12/16/2009 ELECT: I YES FOR FOR  
ROBERT PIEROT  
JOHN KARAKADAS

RATIFY: I YES FOR FOR  
PRICEWATERHOUSECOOPERS  
AS THE CO.'S INDEPENDENT  
PUBLIC ACCOUNTANTS FOR  
THE FY ENDING 12/31/09

GLOBAL  
PARTNERS

LP GLP 37946R109 12/9/2009 APPROVE: I YES FOR FOR  
AMEND THE PARTNERSHIP  
AGREEMENT TO: (I) REPLACE  
THE TERMS "OPERATING  
SURPLUS" AND "ADJUSTED  
OPERATING SURPLUS" WITH  
THE TERM "DISTRIBUTABLE  
CASH FLOW" (II) INCREASE  
THE MINIMUM QUARTERLY  
DISTRIBUTION FROM \$0.4125  
TO \$0.4625 PER UNIT PER  
QUARTER AND (III) REMOVE  
THE PROVISIONS THAT  
CURRENTLY PERMIT EARLY  
CONVERSION OF A PORTION  
OF THE SUBORDINATED  
UNITS.

MAGELLAN  
MIDSTREAM  
PARTNERS,

L.P. MMP 559080106 4/21/2010 ELECT: I YES FOR FOR  
WALTER R. ARNHEIM  
PATRICK C. EILERS  
BARRY R. PEARL

COPANO  
ENERGY,

L.L.C. CPNO 217202100 5/11/2010 ELECT: I YES FOR FOR  
JAMES CRUMP  
ERNIE DANNER  
SCOTT GRIFFITHS  
MICHAEL JOHNSON  
R. BRUCE NORTHCUTT  
T. WILLIAM PORTER



WILLIAM THACKER

RATIFY: I YES FOR FOR  
 DELOITTE & TOUCHE LLP AS  
 INDEPENDENT REGISTERED  
 PUBLIC ACCOUNTING FIRM  
 FOR 2010

TEEKAY  
 TANKERS

LTD. TNK Y8565N102 6/23/2010 ELECT: I YES FOR FOR  
 C. SEAN DAY  
 RICHARD BRONKIS  
 RICHARD DU MOULIN  
 PETER EVENSEN  
 WILLIAM LAWES  
 BJOURN MOLLER

MARKWEST  
 ENERGY  
 PARTNERS,

L.P. MWE 570759100 6/2/2010 ELECT: I YES FOR FOR  
 FRANK M. SEMPLE  
 DONALD D. WOLF  
 KEITH E. BAILEY  
 MICHAEL L. BEATTY  
 CHARLES K. DEMPSTER  
 DONALD C. HEPPERMAN  
 WILLIAM A. KELLSTROM  
 ANNE E. FOX MOUNSEY  
 WILLIAM P. NICOLETTI

RATIFY: I YES FOR FOR  
 DELOITTE & TOUCHE LLP AS  
 THE PARTNERSHIP'S  
 INDEPENDENT REGISTERED  
 PUBLIC ACCOUNTANTS FOR  
 THE FY ENDING DECEMBER  
 31, 2010

LEGACY  
 RESERVES

LP LGCY 524707304 5/12/2010 ELECT: I YES FOR FOR  
 CARY D. BROWN  
 G. LARRY LAWRENCE  
 KEYLE D. VANN  
 KYLE A. MCGRAW