Kayne Anderson MLP Investment CO Form N-PX August 19, 2014

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)

811 Main Street, 14th Floor Houston, Texas 77002 (Address of principal executive offices) (Zip code)

David J. Shladovsky, Esq. KA Fund Advisors, LLC 811 Main Street, 14th Floor 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, 2013 - June 30, 2014

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 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.

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.

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 /s/ Kevin S. McCarthy

Title)*

Kevin S. McCarthy,

Chairman of the Board of Directors,

Date August 15, 2014 President and Chief Executive Officer

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

Item 1 – Proxy Voting Record Kayne Anderson MLP Investment Company 7/1/2013 - 6/30/2014

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	7/22/2013	ELECT:				
				Keith Forman	I	YES	FOR	FOR
				E.G. Bairactaris	I	YES	FOR	FOR
SEADRILL LIMITED	SDRL	G7945E105	9/20/2013	TO RE-ELECT AS A DIRECTOR OF THE COMPANY:				
				John Fredriksen	I	YES	FOR	FOR
				Tor Olav Troim	I	YES		FOR
				Kate Blankenship	I	YES	FOR	FOR
				Kathrine Fredriksen	I	YES	FOR	FOR
				Carl Erik Steen	I	YES	FOR	FOR
				Bert Bekker	I	YES	FOR	FOR
				Paul Leand, Jr.	I	YES	FOR	FOR
				TO AMEND: The Company's By-Laws Nos. 57 (A), 89, 93 (B), 103, 104, 105, 106 (A), 110, and 111	I	YES	FOR	FOR
				TO APPOINT: PricewaterhouseCoopers LLP, as auditor and to authorize the directors to determine their remuneration.	I	YES	FOR	FOR
				TO APPROVE: The remuneration of the Company's Board of Directors of a total amount of fees not to exceed US\$1,500,000 for the year ended December 31, 2013.	I	YES	FOR	FOR
GOLAR LNG PARTNERS L.P.	GMLP	Y2745C102	9/20/2013	TO ELECT:	I	YES	FOR	FOR

Bart Veldhuizen as a Class I Director of the Partnership whose term will expire at the 2016 annual meeting of limited partners.

CRESTWOOD
MIDSTREAM
PARTNERS
L.P.

CMLP 226372100 10/4/2013 APPROVE:

I

YES FOR

FOR

Agreement & plan of merger, by & among Crestwood Midstream Partners LP ("Crestwood"), Crestwood Gas Services GP LLC, the General Partner of Crestwood, Crestwood Holdings LLC, the parent company of CMLP GP, Inergy Midstream, L.P., NRGM GP, LLC, The General Partner of Inergy Midstream, Inergy L.P., the indirect parent company of NRGM GP, LLC, & Intrepid Merger Sub, LLC.

APPROVE:

YES FOR

FOR

The adjournment of the special meeting, if necessary or appropriate to solicit additional proxies, if there are not sufficient votes to approve the merger agreement at the time of the special meeting.

APPROVE:

I

I

YES FOR

FOR

On an advisory (non-binding basis), the compensation payments that will or may be paid by Crestwood to its named executive officers in connection with the merger.

ENTERPRISE PRODUCTS

PARTNERS

L.P.

EPD

293792107 9/30/2013 APPROVE:

I

YES FOR

FOR

The amendment and restatement of the 2008 Enterprise Products long-term incentive plan.

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				APPROVE: The amendment and restatement of the EPD unit purchase plan.	I	YES	FOR	FOR
PLAINS ALL AMERICAN PIPELINE, L.P.	PAA	726503105	11/19/2013	APPROVE:	I	YES	FOR	FOR
TH ELINE, E.T.	•			The Plains All American 2013 Long-term incentive plan.				
				APPROVE: The adjournment of the special meeting to a later date or dates, if deemed necessary or appropriate by the general partner, to solicit additional proxies.	I	YES	FOR	FOR
NAVIOS MARITIME PARTNERS	NMM	Y62267102	12/4/2013	TO ELECT:	I	YES	FOR	FOR
L.P.				Dimitris P. Gkouras as Director				
				RATIFY: The appointment of PricewaterhouseCoopers as the company's independent public accountants for the fiscal year ending December 31, 2013.	I	YES	FOR	FOR
PVR PARTNERS,	PVR	693665101	3/20/2014	TO CONSIDER AND VOTE:	I	YES	FOR	FOR
L.P.				On a proposal to adopt the agreement and plan of merger, dated as of October 9, 2013 (as it may be amended from time to time), which is referred to as the merger agreement, by and among PVR, PVR GP, LLC, the General partner of PVR, Regency Energy partners LP, and Regency GP LP, the General Partner of Regency, and the transactions contemplated thereby,				

				TO CONSIDER AND VOTE: On a proposal to approve the adjournment of the PVR special meeting, if necessary, to solicit additional proxies if there are not sufficient votes to adopt the merger agreement at the time of the special meeting.		YES	FOR	FOR
				TO CONSIDER AND VOTE: On a proposal to approve, on an advisory (non-binding) basis, the related compensation payments that will or may be paid by PVR to its named executive officers in connection with the merger.	I	YES	FOR	FOR
MAGELLAN MIDSTREAM PARTNERS, L.P.	MMP	55908106	4/24/2014	TO ELECT AS DIRECTOR:				
				James C. Kempner Michael N. Mears	I I	YES	FOR FOR	FOR FOR
				James R. Montague	I		FOR	FOR
				ADVISORY RESOLUTION TO: Approve executive compensation.	I	YES	FOR	FOR
				RATIFY: Appointment of independent auditor.	I	YES	FOR	FOR
LEGACY RESERVES	LGCY	524707304	5/15/2014	DIRECTOR:	I	YES	FOR	FOR
L.P.				Cary D. Brown Kyle A. McGraw Dale A. Brown G. Larry Lawrence William D. Sullivan William R. Granberry Kyle D. Vann		,-		
				ADVISORY RESOLUTION: Approving executive compensation.	I	YES	FOR	FOR

		5	,					
				RATIFY: The appointment of BDO USA, LLP as our independent registered public accounting firm for the fiscal year ending December 31, 2014.	I	YES	FOR	FOR
THE WILLIAMS COMPANIES, INC.	WMB	969457100	5/22/2014	ELECTION OF DIRECTOR:	I	YES	FOR	FOR
IIVC.				Alan S. Armstrong Joseph R. Cleveland Kathleen B. Cooper John A. Haag Juanita H. Hinshaw Ralph Izzo Frank T. MacInnis Eric W. Mandelblatt Steven W. Nance Murray D. Smith Janice D. Stoney Laura A. Sugg				
				APPROVAL: Of the amendment to the Williams Companies, Inc. 2007 Incentive Plan	I	YES	FOR	FOR
				APPROVAL: Of the amendment to the Williams Companies, Inc. 2007 Employee Stock Purchase Plan.	I	YES	FOR	FOR
				RATIFICATION: Of Ernst & Young LLP as auditors for 2014.	I	YES	FOR	FOR
				APPROVAL: By non-binding advisory vote, of the company's executive compensation.	I	YES	FOR	FOR
KINDER MORGAN,	KMI	49456B101	5/19/2014	DIRECTOR:	I	YES	FOR	FOR
INC.				Richard D. Kinder Steven J. Kean Anthony W. Hall, Jr. Deborah A. Macdonald				

Michael J. Miller Michael C. Morgan Fayez Sarofim C. Park Shaper Joel V. Staff John M. Stokes Robert F. Vagt

Ι **FOR** RATIFICATION: YES FOR

Of the selection of

PricewaterhouseCoopers LLP as the independent registered public accounting firm for 2014.

STOCKHOLDER S YES AGAINSTFOR PROPOSAL:

Relating to a report on the company's response to climate change.

STOCKHOLDER S YES AGAINSTFOR PROPOSAL:

Relating to a report on methane emissions and pipeline maintenance.

STOCKHOLDER S YES AGAINSTFOR PROPOSAL:

Relating to an annual sustainability report.

682680103 5/21/2014 DIRECTOR: Ι YES FOR **FOR** ONEOK, INC. OKE

> James C. Day Julie H. Edwards William L. Ford John W. Gibson Bert H. Mackie Steven J. Malcolm Jim W. Mogg Pattye L. Moore Gary D. Parker Eduardo A. Rodriguez

Terry K. Spencer

RATIFICATION: Ι YES FOR **FOR**

Of the selection of

PricewaterhouseCoopers LLP as the independent registered public accounting firm of

Oneok, Inc.

				ADVISORY VOTE: To approve the company's executive compensation.	I	YES	FOR	FOR
				SHAREHOLDER PROPOSAL: Regarding publication of a report on methane emissions.	S	YES	AGAINS	ΓFOR
TARGA RESOURCES CORP.	TRGP	87612G101	5/29/2014	DIRECTOR:	I	YES	FOR	FOR
CORF.				Charles R. Crisp Laura C. Fulton James W. Whalen				
				RATIFICATION: Of selection of independent auditors.	I	YES	FOR	FOR
				ADVISORY VOTE: On executive compensation.	I	YES	FOR	FOR
				SHAREHOLDER PROPOSAL: Regarding publication of a report on methane emissions.	S	YES	AGAINS	ГFOR
BUCKEYE PARTNERS,	BPL	118230101	6/3/2014	DIRECTOR:	I	YES	FOR	FOR
L.P.				Forrest E. Wylie Barbara J. Duganier Joseph A. Lasala, Jr. Martin A. White				
				RATIFICATION: Of the selection of Deloitte & Touche LLP as Buckeye Partners, L.P.'s independent registered public accountants for 2014.	I	YES	FOR	FOR
				APPROVAL: In an advisory vote, of the compensation of Buckeye's named executive officers.	I	YES	FOR	FOR
MARKWEST ENERGY	MWE	570759100	6/6/2014	DIRECTOR:	I	YES	FOR	FOR

PARTNERS, L.P.

> Frank M. Semple Donald D. Wolf W.A. Bruckmann III Michael L. Beatty Charles K. Dempster Donald C. Heppermann Randall J. Larson Anne E. Fox Mounsey Williams P. Nicoletti

TO APPROVE: On an advisory basis, the compensation of the partnership's named executive officers.

Ι

I

I

Ι

Ι

YES FOR

YES FOR

YES FOR

YES FOR

YES FOR

RATIFICATION: Of Deloitte & Touche LLP as the partnership's independent registered public accountants for the fiscal year ending December 31, 2014.

BREITBURN ENERGY

L.P.

BBEP 106776107 6/19/2014 DIRECTOR: **PARTNERS**

Randall H. Breitenbach David B. Kilpatrick

ADVISORY PROPOSAL: To approve the compensation of the named executive officers of Breitburn GP, LLC.

RATIFICATION: Of the appointment of PricewaterhouseCoopers, LLP as the independent registered public accounting firm for the fiscal year ending December 31, 2014.

FOR

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