Kayne Anderson MLP Investment CO Form N-PX August 11, 2015

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 1800 Avenue of the Stars, Third Floor Los Angeles, California 90067

(Name and address of agent for service)

Registrant's telephone number, including area code: (310) 282-7905

Date of fiscal year end: November 30

Date of reporting period: July 1, 2014 - June 30, 2015

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 10, 2015 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

July 1, 2014 - June 30, 2015

July 1, 2014 - June 30, 2015									
Issuer	Ticker Symbol	CUSIP	Meeting Date	Matter:	Proposed by (I)ssuer or (S)hareholder	Vote Cast?	How Voted		
KNOT OFFSHORE PARTNERS LP	KNOP	Y48125101	8/13/2014	TO ELECT:	I	YES	FOR		
				EDWARD A. WARYAS, JR. AS A CLASS I DIRECTOR, WHOSE TERM WILL EXPIRE AT THE 2018 ANNUAL MEETING OF LIMITED PARTNERS.					
GOLAR LNG PARTNERS LP	GMLP	Y2745C102	9/19/2014	TO ELECT:	I	YES	FOR		
PARTNERS LP				CARL E. STEEN AS A CLASS II DIRECTOR OF THE PARTNERSHIP WHOSE TERM WILL EXPIRE AT THE 2017 ANNUAL MEETING OF LIMITED PARTNERS.					
CAPITAL PRODUCT PARTNERS L.P.	CPLP	Y11082107	8/21/2014	ELECTION:	I	YES	FOR		
				OF ONE CLASS I DIRECTOR UNTIL THE 2017 ANNUAL MEETING: PIERRE DE DEMANDOLX-DEDONS.					
				PROPOSAL TO APPROVE: THE FOURTH AMENDMENT TO THE SECOND AMENDED AND RESTATED AGREEMENT OF LIMITED PARTNERSHIP TO REVISE THE TARGET DISTRIBUTIONS TO HOLDERS OF INCENTIVE DISTRIBUTION RIGHTS.	I	YES	FOR		
				PROPOSAL TO APPROVE: AN AMENDMENT AND RESTATEMENT OF THE 2008 OMNIBUS INCENTIVE COMPENSATION PLAN AMENDED JULY 22, 2010 TO INCREASE THE MAXIMUM	I	YES	FOR		

NUMBER OF RESTRICTED
UNITS AUTHORIZED FOR
ISSUANCE THEREUNDER
FROM 800,000 TO 1,650,000

			ISSUANCE THEREUNDER FROM 800,000 TO 1,650,000.		
SEADRILL PARTNERS LLC	SDLP	Y7545W1099/26/2014	TO ELECT:	I	YES FOR
			HARALD THORSTEIN AS A CLASS I DIRECTOR OF THE COMPANY WHOSE TERM WILL EXPIRE AT THE 2017 ANNUAL MEETING OF MEMBERS.		
HOEGH LNG PARTNERS LP	HMLP	Y3262R100 9/24/2014	TO ELECT:	I	YES FOR
THETTERS EX			ANDREW JAMIESON AS A CLASS I DIRECTOR WHOSE TERM WILL EXPIRE AT THE 2015 ANNUAL MEETING OF LIMITED PARTNERS.		
			TO ELECT: ROBERT SHAW AS A CLASS II DIRECTOR WHOSE TERM WILL EXPIRE AT THE 2016 ANNUAL MEETING OF LIMITED PARTNERS.	I	YES FOR
			TO ELECT: DAVID SPIVAK AS A CLASS III DIRECTOR WHOSE TERM WILL EXPIRE AT THE 2017 ANNUAL MEETING OF LIMITED PARTNERS.	I	YES FOR
			TO ELECT: MORTTEN W. HOEGHAS A CLASS IV DIRECTOR WHOSE TERM WILL EXPIRE AT THE 2018 ANNUAL MEETING OF LIMITED PARTNERS.	I	YES FOR
DYNAGAS LNG PARTNERS LP	DLNG	Y2188B108 10/23/2014	DIRECTOR: EVANGELOS VLAHOULIS	I	YES FOR
			DIRECTOR: ALEXIOS RODOPOULOS	I	YES FOR
			DIRECTOR:	I	YES FOR

LEVON DEDEGIAN

				TO APPROVE: THE APPOINTMENT OF ERNST & YOUNG (HELLAS) CERTIFIED AUDITORS ACCOUNTANTS S.A. AS THE PARTNERSHIP'S INDEPENDENT AUDITORS FOR THE FISCAL YEAR ENDING DECEMBER 31, 2014.	I	YES	FOR
NAVIOS MARITIME PARTNERS L.P.	NMM	Y62267102	11/21/2014	DIRECTOR: SERAFEIM KRIEMPARDIS	I	YES	FOR
				RATIFY: THE APPOINTMENT OF PRICEWATERHOUSECOOPERS AS THE COMPANY'S INDEPENDENT PUBLIC ACCOUNTANTS FOR THE FISCAL YEAR ENDING DECEMBER 31, 2014.	I	YES	FOR
EL PASO PIPELINE PARTNERS, L.P.	EPB	283702108	11/20/2014	TO APPROVE: THE EPB MERGER AGREEMENT.	I	YES	FOR
				TO APPROVE: THE EPB ADJOURNMENT PROPOSAL.	I	YES	FOR
KINDER MORGAN, INC.	KMI	49456B101	11/20/2014	TO APPROVE: AN AMENDMENT OF THE CERTIFICATE OF INCORPORATION OF KMI TO INCREASE THE NUMBER OF AUTHORIZED SHARES OF CLASS P COMMON STOCK, PAR VALUE \$0.01 PER SHARE, OF KMI FROM 2,000,000,000 TO 4,000,000,000.	I	YES	FOR
				TO APPROVE: THE ISSUANCE OF SHARES OF KMI COMMON STOCK IN THE	I	YES	FOR

PROPOSED KMP, KMR AND EPB MERGERS.

				TO APPROVE: THE ADJOURNMENT OF THE SPECIAL MEETING, IF NECESSARY TO SOLICIT ADDITIONAL PROXIES IF THERE ARE NOT SUFFICIENT VOTES TO ADOPT THE FOREGOING PROPOSALS AT THE TIME OF THE SPECIAL MEETING.	I	YES FO	OR
KINDER MORGAN ENERGY PARTNERS, L.P.	KMP	494550106 11/2	0/2014	TO APPROVE:	I	YES FO	OR
1111(11)(21)(3), 2.11				THE KMP MERGER AGREEMENT.			
				TO APPROVE: THE KMP ADJOURNMENT PROPOSAL.	I	YES FO	OR
KINDER MORGAN MANAGEMENT, LLC	KMR	49455U100 11/2	0/2014	TO APPROVE:	I	YES FO	OR
				THE KMR MERGER AGREEMENT.			
				TO APPROVE: THE KMR ADJOURNMENT PROPOSAL.	I	YES FO	OR
				TO APPROVE: THE KMP MERGER AGREEMENT.	I	YES FO	OR
				TO APPROVE: THE KMP ADJOURNMENT PROPOSAL.	I	YES FO	OR
ENERGY TRANSFER	ETP	29273R109 11/2	0/2014	TO APPROVE:	I	YES FO	OR
PARTNERS, L.P.				THE SECOND AMENDED AND RESTATED ENERGY TRANSFER PARTNERS, L.P. 2008 LONG-TERM INCENTIVE			

PLAN (AS IT HAS BEEN
AMENDED FROM TIME TO
TIME, THE "LTIP"), WHICH,
AMONG OTHER THINGS,
PROVIDES FOR AN INCREASE
IN THE MAXIMUM NUMBER
OF COMMON UNITS
RESERVED AND AVAILABLE
FOR DELIVERY WITH
RESPECT TO AWARDS UNDER
THE LTIP TO 10,000,000
COMMON UNITS (THE "LTIP
PROPOSAL").

TO APPROVE:
THE ADJOURNMENT OF THE
SPECIAL MEETING TO A
LATER DATE OR DATES, IF
NECESSARY OR
APPROPRIATE, TO SOLICIT
ADDITIONAL PROXIES IN THE
EVENT THERE ARE NOT
SUFFICIENT VOTES AT THE
TIME OF THE SPECIAL
MEETING TO APPROVE THE
LTIP PROPOSAL.

YES FOR

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Ι

TARGA RESOURCES

CORP.

TRGP 87612G101 1/20/2015

TO CONSIDER AND VOTE UPON:

I YES AGAINST

A PROPOSAL TO APPROVE THE ISSUANCE OF SHARES OF COMMON STOCK OF TARGA RESOURCES CORP. ("TRC") IN CONNECTION WITH THE MERGER CONTEMPLATED BY THE AGREEMENT AND PLAN OF MERGER, DATED AS OF OCTOBER 13, 2014, BY AND AMONG TRC, TRIDENT GP MERGER SUB LLC, ATLAS ENERGY, L.P. AND ATLAS ENERGY ... (DUE TO SPACE LIMITS, SEE PROXY STATEMENT FOR FULL PROPOSAL).

TO APPROVE: ONE OR MORE ADJOURNMENTS OF THE SPECIAL MEETING IF YES AGAINST

NECESSARY OR APPROPRIATE
TO SOLICIT ADDITIONAL
PROXIES IF THERE ARE NOT
SUFFICIENT VOTES TO
APPROVE THE TRC STOCK
ISSUANCE PROPOSAL.

			ISSUANCE PROPOSAL.			
ATLAS PIPELINE APL PARTNERS, L.P.	049392103	1/22/2015	PROPOSAL TO APPROVE AND ADOPT: THE AGREEMENT AND PLAN OF MERGER (THE "APL MERGER AGREEMENT"), DATED AS OF OCTOBER 13, 2014, BY AND AMONG TARGA RESOURCES CORP., TARGA RESOURCES PARTNERS LP, TARGA RESOURCES GP LLC, TRIDENT MLP MERGER SUB LLC, ATLAS ENERGY, L.P., ATLAS PIPELINE PARTNERS, L.P. AND ATLAS PIPELINE PARTNERS GP, LLC, AND TO APPROVE THE MERGER CONTEMPLATED BY THE APL MERGER AGREEMENT.	I	NO	DID NOT VOTE
			PROPOSAL TO APPROVE: ON AN ADVISORY (NON-BINDING) BASIS, THE COMPENSATION PAYMENTS THAT WILL OR MAY BE PAID BY ATLAS PIPELINE PARTNERS, L.P. TO ITS NAMED EXECUTIVE OFFICERS IN CONNECTION WITH THE MERGER.	I	NO	DID NOT VOTE
MAGELLAN MIDSTREAM MMP PARTNERS, L.P.	559080106	4/23/2015	DIRECTOR: ROBERT G. CROYLE	I	YES	FOR
			DIRECTOR: STACY P. METHVIN	I	YES	FOR
			DIRECTOR: BARRY R. PEARL	I	YES	FOR
			PROPOSAL TO APPROVE:	I	YES	FOR

EXECUTIVE COMPENSATION.

				RATIFY APPOINTMENT: INDEPENDENT AUDITOR.	I	YES	FOR
REGENCY ENERGY PARTNERS LP	RGP	75885Y107	4/28/2015	PROPOSAL:	I	NO	DID NOT VOTE
				TO ADOPT THE AGREEMENT AND PLAN OF MERGER, DATED AS OF JANUARY 25, 2015, AS AMENDED BY AMENDMENT NO. 1 THERETO, DATED AS OF FEBRUARY 18, 2015, BY AND AMONG ENERGY TRANSFER PARTNERS, L.P., ENERGY TRANSFER PARTNERS GP, L.P., THE GENERAL PARTNER OF ETP, RENDEZVOUS I LLC, (DUE TO SPACE LIMITS, SEE PROXY STATEMENT FOR FULL PROPOSAL.			
				PROPOSAL:	I	NO	DID NOT
				TO APPROVE THE ADJOURNMENT OF THE 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.			VOTE
				PROPOSAL:	I	NO	DID NOT VOTE
				TO APPROVE, ON AN ADVISORY (NON-BINDING) BASIS, THE PAYMENTS THAT WILL OR MAY BE PAID BY REGENCY TO ITS NAMED EXECUTIVE OFFICERS IN CONNECTION WITH THE MERGER.			. 5 22
KINDER MORGAN, INC.	KMI	49456B101	5/7/2015 1	DIRECTOR:	I	YES	FOR
				RICHARD D. KINDER STEVEN J. KEAN			

TED A. GARDNER ANTHONY W. HALL, JR. GARY L. HULTQUIST RONALD L. KUEHN, JR. DEBORAH A. MACDONALD

	MICHAEL J. MILLER MICHAEL C. MORGAN ARTHUR C. REICHSTETTER FAYEZ SAROFIM C. PARK SHAPER WILLIAM A. SMITH JOEL V. STAFF ROBERT F. VAGT PERRY M. WAUGHTAL			
2	APPROVAL: OF THE KINDER MORGAN, INC. 2015 AMENDED AND RESTATED STOCK INCENTIVE PLAN.	I	YES	FOR
3	APPROVAL: OF THE AMENDED AND RESTATED ANNUAL INCENTIVE PLAN OF KINDER MORGAN, INC.	I	YES	FOR
4	ADVISORY VOTE TO: APPROVE EXECUTIVE COMPENSATION.	I	YES	FOR
5	RATIFICATION: OF THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR 2015.	I	YES	FOR
6	APPROVAL: OF THE AMENDED AND RESTATED CERTIFICATE OF INCORPORATION OF KINDER MORGAN, INC.	I	YES	FOR
7	STOCKHOLDER PROPOSAL: RELATING TO A REPORT ON OUR COMPANY'S RESPONSE TO CLIMATE CHANGE.	S	YES	AGAINST
8	STOCKHOLDER PROPOSAL:	S	YES	AGAINST

RELATING TO A REPORT ON METHANE EMISSIONS.

				9	STOCKHOLDER PROPOSAL: RELATING TO AN ANNUAL SUSTAINABILITY REPORT.	S	YES	AGAINST
LEGACY RESERVES LP	LGCY	524707304	5/13/2015	1	DIRECTOR: CARY D. BROWN KYLE A. MCGRAW DALE A. BROWN G. LARRY LAWRENCE WILLIAM D. SULLIVAN WILLIAM R. GRANBERRY KYLE D. VANN PAUL T. HORNE	I	YES	FOR
					APPROVAL: OF THE AMENDMENT TO THE AMENDED AND RESTATED LEGACY RESERVES LP LONG-TERM INCENTIVE PLAN.	I	YES	FOR
					RATIFICATION: OF THE APPOINTMENT OF BDO USA, LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FISCAL YEAR ENDING DECEMBER 31, 2015.	I	YES	FOR
TARGA RESOURCES CORP.	TRGP	87612G101	5/18/2015	1	DIRECTOR: JOE BOB PERKINS ERSHEL C. REDD, JR.	I	YES	FOR
					RATIFICATION: OF THE SELECTION OF INDEPENDENT AUDITORS.	I	YES	FOR
					SHAREHOLDER PROPOSAL: REGARDING PUBLICATION OF A REPORT ON METHANE EMISSIONS.	S	YES	AGAINST
ONEOK, INC.	OKE	682680103	5/20/2015	1A	ELECTION OF DIRECTOR: JAMES C. DAY	I	YES	FOR

1B ELECTION OF DIRECTOR:

I

YES FOR

				1D	JULIE H. EDWARDS	1	IES	FUK
				1C	ELECTION OF DIRECTOR: LIAM L. FORD	I	YES	FOR
				1D	ELECTION OF DIRECTOR: JOHN W. GIBSON	I	YES	FOR
				1E	ELECTION OF DIRECTOR: STEVEN J. MALCOLM	I	YES	FOR
				1F	ELECTION OF DIRECTOR: JIM W. MOGG	I	YES	FOR
				1G	ELECTION OF DIRECTOR: PATTYE L. MOORE	I	YES	FOR
				1H	ELECTION OF DIRECTOR: GARY D. PARKER	I	YES	FOR
				1I	ELECTION OF DIRECTOR: EDUARDO A. RODRIGUEZ	I	YES	FOR
				1J	ELECTION OF DIRECTOR: TERRY K. SPENCER	I	YES	FOR
				2	RATIFICATION OF: THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS THE INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM OF ONEOK, INC. FOR THE YEAR ENDING DECEMBER 31, 2015.	I	YES	FOR
				3	ADVISORY VOTE: TO APPROVE ONEOK, INC.'S EXECUTIVE COMPENSATION.	I	YES	FOR
THE WILLIAMS								
COMPANIES, INC.	WMB	969457100	5/21/2015	1A	ELECTION OF DIRECTOR:	I	YES	FOR
					ALAN S. ARMSTRONG			
				1B	ELECTION OF DIRECTOR: JOSEPH R. CLEVELAND	I	YES	FOR
				1C	ELECTION OF DIRECTOR: KATHLEEN B. COOPER	I	YES	FOR
								4.4

1D ELECTION OF DIRECTOR:

JOHN A. HAGG

YES FOR

I

			1E ELECTION OF DIRECTOR: JUANITA H. HINSHAW	: I	YES FOR
			1F ELECTION OF DIRECTOR: RALPH IZZO	: I	YES FOR
			1G ELECTION OF DIRECTOR: FRANK T. MACINNIS	: I	YES FOR
			1H ELECTION OF DIRECTOR: ERIC W. MANDELBLATT	: I	YES FOR
			11 ELECTION OF DIRECTOR: KEITH A. MEISTER	: I	YES FOR
			1J ELECTION OF DIRECTOR: STEVEN W. NANCE	: I	YES FOR
			1K ELECTION OF DIRECTOR: MURRAY D. SMITH	: I	YES FOR
			1L ELECTION OF DIRECTOR: JANICE D. STONEY	: I	YES FOR
			1MELECTION OF DIRECTOR: LAURA A. SUGG	: I	YES FOR
			2 RATIFICATION OF: ERNST & YOUNG LLP AS AUDITORS FOR 2015.	I	YES FOR
			APPROVAL, BY NONBINE ADVISORY VOTE: OF THE COMPANY'S EXECUTIVE COMPENSAT	1	YES FOR
BUCKEYE PARTNERS, L.P. BPL	118230101	6/2/2015	1 DIRECTOR: PIETER BAKKER BARBARA M. BAUMANN MARK C. MCKINLEY DONALD W. NIEMIEC	I	YES FOR
			2 RATIFICATION OF: OF THE SELECTION OF DELOITTE & TOUCHE LLI BUCKEYE PARTNERS, L.F.		YES FOR
					15

INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR 2015.

MARKWEST

ENERGY MWE 570759100 6/3/2015 1 DIRECTOR: I YES FOR

PARTNERS, L.P.

FRANK M. SEMPLE
DONALD D. WOLF
MICHAEL L. BEATTY
WILLIAM A BRUCKMANN III
DONALD C. HEPPERMANN
RANDALL J. LARSON
ANNE E. FOX MOUNSEY
WILLIAM P. NICOLETTI

2 RATIFICATION OF: I YES FOR

DELOITTE & TOUCHE LLP AS THE PARTNERSHIP'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR

THE FISCAL YEAR ENDING DECEMBER 31, 2015.