Kayne Anderson MLP Investment CO Form N-PX August 10, 2017

OMB APPROVAL

OMB Number: 3235-0582

Expires: March 31, 2018

Estimated average burden hours per response 7.2

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)

Michael O'Neil

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, 2016 – June 30, 2017

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

Title)\*

/s/ Kevin S. McCarthy

Kevin S. McCarthy,

Chairman and Chief Executive Officer

Date August 10, 2017

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

Kayne Anderson MLP Investment Company

Proxy Voting Record

Date of reporting period: July 1, 2016 - June 30, 2017

Issuer	Symbol	CUSIP	Meeting Date		Matter:	Proposed by (I)ssuer or (S)hareholder	Vote
TRANSMONTAIGNE PARTNERS LP	TLP	89376V100	7/12/16	1	TO APPROVE:  THE PARTNERSHIP'S 2016 LONG-TERM INCENTIVE PLAN (THE "2016 PLAN"), WHICH, AMONG OTHER THINGS, PERMITS COMMON UNITS TO BE RESERVED AND MADE AVAILABLE FOR ISSUANCE WITH RESPECT TO AWARDS UNDER THE 2016 PLAN.	I	YES
GOLAR LNG PARTNERS LP	GMLP	Y2745C102	9/28/16	1	TO ELECT:  ALF C. THORKILDSEN AS A CLASS I DIRECTOR OF THE PARTNERSHIP WHOSE TERM WILL EXPIRE AT THE 2019 ANNUAL MEETING OF LIMITED PARTNERS.	I	YES
ROSE ROCK MIDSTREAM L.P.	RRMS	777149105	9/29/16	1	WRITTEN CONSENT:  UNITHOLDERS OF ROSE ROCK MIDSTREAM, L.P. ("ROSE ROCK") TO APPROVE AND ADOPT THE AGREEMENT AND PLAN OF MERGER, DATED AS OF MAY 30, 2016, INCLUDING THE MERGER OF PBMS, LLC WITH AND INTO ROSE ROCK.	I	YES
SEMGROUP CORPORATION	SEMG	81663A105	9/29/16	1	TO APPROVE:  THE ISSUANCE OF CLASS A COMMON STOCK PURSUANT TO THE TERMS OF THE	I	YES

MERGER AGREEMENT IN CONNECTION WITH THE MERGER.

					MERGER.		
				2	TO APPROVE:  THE ADJOURNMENT OF THE SEMGROUP SPECIAL MEETING, FROM TIME TO TIME, IF NECESSARY OR APPROPRIATE TO SOLICIT ADDITIONAL PROXIES.	I	YES
TESORO LOGISTICS LP	TLLP	88160T107	10/4/16	1	TO APPROVE:  THE AMENDMENT AND RESTATEMENT OF THE PARTNERSHIP'S 2011 LONG-TERM INCENTIVE PLAN (THE "LTIP PROPOSAL").	I	YES
				2	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 (THE "ADJOURNMENT PROPOSAL").	I	YES
PLAINS GP HOLDINGS, L.P.	PAGP	72651A108	11/15/16	1	PROPOSAL TO:  APPROVE THE SIMPLIFICATION AGREEMENT, DATED AS OF JULY 11, 2016, BY AND AMONG PLAINS GP HOLDINGS, L.P., PAA GP HOLDINGS LLC, PLAINS AAP, L.P., PLAINS ALL	I	YES

AMERICAN GP LLC, PLAINS ALL AMERICAN PIPELINE, L.P., AND PAA GP LLC, AND THE **TRANSACTIONS** CONTEMPLATED BY THE **SIMPLIFICATION** AGREEMENT.

PROPOSAL TO: I

APPROVE THE ADJOURNMENT OF THE SPECIAL MEETING TO A LATER DATE OR DATES, AT THE DISCRETION OF OUR GENERAL PARTNER, TO SOLICIT ADDITIONAL PROXIES TO APPROVE THE SIMPLIFICATION PROPOSAL.

**DYNAGAS LNG** DLNG Y2188B108 11/22/16 TO ELECT: Ι 1 PARTNERS LP

> ALEXIOS RODOPOULOS AS A **CLASS II DIRECTOR TO SERVE** FOR A THREE-YEAR TERM **UNTIL THE 2019 ANNUAL** MEETING OF LIMITED **PARTNERS**

YES 2 TO APPROVE: I

THE APPOINTMENT OF ERNST & YOUNG (HELLAS) **CERTIFIED AUDITORS** ACCOUNTANTS S.A. AS THE PARTNERSHIP'S INDEPENDENT AUDITORS FOR THE FISCAL YEAR ENDING **DECEMBER 31, 2016** 

**MAGELLAN MIDSTREAM** MMP 559080106 4/20/17 **ELECTION OF DIRECTOR:** 

> YES LORI A. GOBILLOT Ι EDWARD J. GUAY Ι YES

> > 7

YES

YES

PARTNERS, L.P.

					MICHAEL N. MEARS	I	YES
					JAMES R. MONTAGUE	I	YES
				2	ADVISORY RESOLUTION:	I	YES
					TO APPROVE EXECUTIVE COMPENSATION		
				3	ADVISORY RESOLUTION:		
					TO APPROVE EXECUTIVE COMPENSATION VOTE FREQUENCY	I	YES
				4	RATIFICATION OF:	I	YES
					APPOINTMENT OF INDEPENDENT AUDITOR		
ENERGY TRANSFER PARTNERS, L.P.	ЕТР	29273R109	4/26/17	1	TO CONSIDER AND VOTE:	I	ABS'
					ON A PROPOSAL TO ADOPT THE AGREEMENT AND PLAN OF MERGER, DATED AS OF NOVEMBER 20, 2016, AS AMENDED BY AMENDMENT NO. 1 THERETO, DATED AS OF DECEMBER 16, 2016, BY AND AMONG SUNOCO LOGISTICS PARTNERS L.P. ("SLX"), SUNOCO PARTNERS LLC, THE GENERAL PARTNER OF SXL, SXL ACQUISTION SUB (DUE TO SPACE LIMITS, SEE PROXY STATEMENT FOR FULL PROPOSAL)		
				2	TO CONSIDER AND VOTE:  ON A PROPOSAL TO APPROVE THE ADJOURNMENT OF THE SPECIAL MEETING, IF NECESSARY, TO SOLICIT ADDITIONAL PROXIES IF	I	ABS'

THERE ARE NOT SUFFICIENT VOTES TO ADOPT THE AGREEMENT AND PLAN OF MERGER, AS AMENDED, AND THE TRANSACTIONS CONTEMPLAGED THERE BY AT THE TIME OF THE SPECIAL MEETING.

3	TO CONSIDER AND VOTE:	I	ABS'
	ON A PROPOSAL TO APPROVE,		
	ON AN ADVISORY		
	(NON-BINDING) BASIS, THE		
	PAYMENTS THAT WILL OR		
	MAY BE PAID BY ETP TO ITS		
	NAMED EXECUTIVE OFFICERS		
	IN CONNECTION WITH THE		

GASLOG
PARTNERS LP

GLOP Y2687W108 5/4/17 1 TO ELECT: I YES
PAMELA M. GIBSON AS A

MERGER.

CLASS II DIRECTOR TO SERVE FOR A THREE-YEAR TERM UNTIL THE 2020 ANNUAL MEETING OR UNTIL HER SUCCESSOR HAS BEEN ELECTED OR APPOINTED.

2 TO RATIFY:

1A RICHARD D. KINDER

THE APPOINTMENT OF DELOITTE LLP AS OUR INDEPENDENT AUDITORS FOR THE FISCAL YEAR ENDING DECEMBER 31, 2017.

KINDER MORGAN, INC. 49456B101 5/10/17 ELECTION OF DIRECTOR:

1B	STEVEN J. KEAN	I	YES
1C	KIMBERLY A. DANG	I	YES

Ι

Ι

YES

YES

1D TED A. GARDNER

Ε	ANTHONY W. HALL, JR.	I	YES
F	GARY L. HULTQUIST	I	YES
G	RONALD L. KUEHN, JR.	I	YES
Н	DEBORAH A. MACDONALD	I	YES
Ι	MICHAEL C. MORGAN	I	YES
J	ARTHUR C. REICHSTETTER	I	YES
K	FAYEZ SAROFIM	I	YES
L	C. PARK SHAPER	I	YES
M	WILLIAM A. SMITH	I	YES
N	JOEL V. STAFF	I	YES
0	ROBERT F. VAGT	I	YES
P	PERRY M. WAUGHTAL	I	YES
2	RATIFICATION OF:	I	YES
	THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR 2017		
3	STOCKHOLDER PROPOSAL:	S	YES
	RELATING TO A PROXY ACCESS BYLAW		
ļ	STOCKHOLDER PROPOSAL:	S	YES
	RELATING TO A REPORT ON METHANE EMISSIONS		
5	STOCKHOLDER PROPOSAL:	S	YES
	RELATING TO AN ANNUAL SUSTAINABILITY REPORT		
<u>,</u>	STOCKHOLDER PROPOSAL:	S	YES
3	F G H I J K L M N O P	F GARY L. HULTQUIST G RONALD L. KUEHN, JR. H DEBORAH A. MACDONALD I MICHAEL C. MORGAN J ARTHUR C. REICHSTETTER K FAYEZ SAROFIM L C. PARK SHAPER M WILLIAM A. SMITH N JOEL V. STAFF O ROBERT F. VAGT P PERRY M. WAUGHTAL  RATIFICATION OF: THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR 2017  STOCKHOLDER PROPOSAL: RELATING TO A PROXY ACCESS BYLAW  STOCKHOLDER PROPOSAL: RELATING TO A REPORT ON METHANE EMISSIONS  STOCKHOLDER PROPOSAL: RELATING TO AN ANNUAL SUSTAINABILITY REPORT	F GARY L. HULTQUIST I G RONALD L. KUEHN, JR. I H DEBORAH A. MACDONALD I I MICHAEL C. MORGAN I J ARTHUR C. REICHSTETTER I K FAYEZ SAROFIM I L C. PARK SHAPER I M WILLIAM A. SMITH I N JOEL V. STAFF I O ROBERT F. VAGT I P PERRY M. WAUGHTAL I  RATIFICATION OF: I THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR 2017  STOCKHOLDER PROPOSAL: S RELATING TO A PROXY ACCESS BYLAW  STOCKHOLDER PROPOSAL: S RELATING TO A REPORT ON METHANE EMISSIONS  STOCKHOLDER PROPOSAL: S RELATING TO AN ANNUAL SUSTAINABILITY REPORT

I

YES

RELATING TO AN
ASSESSMENT OF THE
MEDIUM- AND LONG-TERM
PORTFOLIO IMPACTS OF
TECHNOLOGICAL ADVANCES
AND GLOBAL CLIMATE
CHANGE POLICIES

TARGA	TRGP	87612G101	05/22/17	1A	ELECTION OF DIRECTOR:	I	YES
RESOURCES CORP.	11101	0.0120101	00, <b>22</b> ,1,		CHARLES R. CRISP		
				1B	ELECTION OF DIRECTOR: LAURA C. FULTON	I	YES
				1C	ELECTION OF DIRECTOR: MICHAEL A. HEIM	I	YES
				1D	ELECTION OF DIRECTOR: JAMES. W. WHALEN	I	YES
				2	RATIFICATION OF: SELECTION OF INDEPENDENT ACCOUNTANTS	I	YES
				3	ADVISORY VOTE: ON EXECUTIVE COMPENSATION	I	YES
				4	ADVISORY VOTE:  ON THE FREQUENCY OF THE ADVISORY VOTE ON EXECUTIVE COMPENSATION	I	YES

5

ADOPTIION OF:

YES

I

THE AMENDED AND RESTATED TARGA RESOURCES CORP. 2010 STOCK INCENTIVE PLAN

					RESOURCES CORP. 2010 STOCK INCENTIVE PLAN		
				6	ISSUANCE OF:	I	YES
					SHARES OF COMMON STOCK UPON CONVERSION OF SERIES A PREFERRED STOCK AND EXERCISE OF WARRANTS		
BUCKEYE PARTNERS, L.P.	BLP	118230101	06/06/17	1	DIRECTOR:	I	YES
PARTNERS, L.F.					BARBARA J. DUGANIER		
					JOSEPH A. LASALA, JR		
					LARRY C. PAYNE		
					MARTIN A. WHITE		
				2	THE APPROVAL OF:	I	YES
					THE AMENDMENTS TO THE BUCKEYE PARTNERS, L.P. 2013 LONG-TERM INCENTIVE PLAN, AS DESCRIBED IN OUR PROXY STATEMENT.		
				3	THE RATIFICATION OF:	I	YES
					THE SELECTION OF DELOITTE & TOUCHE LLP AS BUCKEYE PARTNERS, L.P.'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR 2017.		
				4	THE APPROVAL:	I	YES
					IN AN ADVISORY VOTE, OF THE COMPENSATION OF BUCKEYE'S NAMED EXECUTIVE OFFICERS AS DESCRIBED IN OUR PROXY STATEMENT PURSUANT TO		

ITEM 402 OF REGULATION S-K.

5 THE VOTE: I YES

ON AN ADVISORY BASIS, ON THE FREQUENCY OF THE ADVISORY VOTE ON THE COMPENSATION OF THE NAMED EXECUTIVE OFFICERS.

ONEOK PARTNERS, OKS 68268N103 6/30/2017 1 TO APPROVE: I YES

TO APPROVE THE
AGREEMENT AND PLAN OF
MERGER, DATED AS OF
JANUARY 31, 2017, BY AND
AMONG ONEOK, INC., NEW
HOLDINGS SUBSIDIARY, LLC,
ONEOK PARTNERS, L.P.
("ONEOK PARTNERS") AND
ONEOK PARTNERS GP, L.L.C.

2 TO APPROVE: I YES

THE ADJOURNMENT OF THE ONEOK PARTNERS 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 ABOVE PROPOSAL.