Kayne Anderson MLP Investment CO Form N-PX August 20, 2012

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, 2011 - June 30, 2012

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; Whether the registrant cast its vote on the matter; (g) (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 of the Board of Directors,

Date August 20, 2012 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 7/1/2011 - 6/30/2012

Issuer	Symbol	CUSIP	Meeting Date	Matter:	Proposed by (I)ssuer or (S)hrhldr			_
CRUDE CARRIERS CORPORATION	CRU	Y1820X106	9/20/2011	ADOPT: THE AGREEMENT AND PLAN OF MERGER, DATED AS OF MAY 5, 2011, BY AND AMONG CAPITAL PRODUCT PARTNERS, L.P., CAPITAL GP L.L.C., POSEIDON PROJECT CORP. ("CRUDE"), ALL AS MORE FULLY DESCRIBED IN THE PROXY STATEMENT.	I	YES	FOR	FOR
				APPROVE: ADJOURN THE SPECIAL MEETING, IF NECESSARY, TO PERMIT FURTHER SOLICITATION OF PROXIES IF THERE ARE NOT SUFFICIENT VOTES AT THE TIME OF THE SPECIAL MEETING TO ADOPT THE MERGER AGREEMENT AND APPROVE THE PROPOSED MERGER.	I	YES	FOR	FOR
KNIGHTSBRIDGE TANKERS LTD.		G5299G106	9/23/2011	ELECT: OLA LORENTZON DOUGLAS C. WOLCOTT DAVID M. WHITE HANS PETER AAS HERMAN BILLUNG	I	YES	FOR	FOR
				RE-APPOINT AND AUTHORIZE: PRICEWATERHOUSECOOPERS AS THE COMPANY'S INDEPENDENT AUDITORS AND TO AUTHORIZE THE BOARD OF DIRECTORS TO DETERMINE THEIR	I	YES	FOR	FOR

REMUNERATION.

				APPROVE: THE INCREASE OF THE COMPANY'S AUTHORISED SHARE CAPITAL FROM U\$\$350,000.00 DIVIDED INTO 35,000,000 COMMON SHARES OF U\$\$0.01 PAR VALUE EACH (OF WHICH 24,425,699 ARE IN ISSUE) TO U\$\$500,000.00 DIVIDED INTO 50,000,000 COMMON SHARES OF U\$\$0.01 PAR VALUE EACH BY THE CREATION OF 15,000,000 COMMON SHARES OF U\$\$0.01 PAR VALUE EACH.	I	YES	FOR	FOR
				APPROVE: THE REMUNERATION OF THE COMPANY'S BOARD OF DIRECTORS OF A TOTAL AMOUNT OF FEES NOT TO EXCEED US\$500,000.00 FOR THE YEAR ENDED DECEMBER 31, 2011.	I	YES	FOR	FOR
CAPITAL PRODUCTS PARTNERS L.P.	CPLP	Y11082107	11/15/2011	ELECT: CLASS I DIRECTOR TO SERVE UNTIL THE 2014 ANNUAL MEETING OF LIMITED PARTNERS: P. DE DEMANDOLX-DEDONS.	I	YES	FOR	FOR
NAVIOS								
MARITIME PARTNERS L.P.	NMM	Y62267102	11/22/2011	ELECT: CLASS III DIRECTOR TO SERVE UNTIL THE 2014 ANNUAL MEETING OF LIMITED PARTNERS: SERAFEIM KRIEMPARDIS.	I	YES	FOR	FOR
				RATIFY: THE APPOINTMENT OF PRICEWATERHOUSECOOPERS AS THE COMPANY'S INDEPENDENT PUBLIC ACCOUNTS FOR THE FISCAL	I	YES	FOR	FOR
							6	

YEAR.

REGENCY **ENERGY** I PARTNERS LP RGP 75885Y107 12/16/2011 APPROVE: YES FOR **FOR** THE TERMS OF THE REGENECY ENERGY PARTNERS LP 2011 LONG-TERM INCENTIVE PLAN, WHICH PROVIDES FOR AWARDS OF OPTIONS TO **PURCHASE THE** PARTNERSHIP'S COMMON UNITS, AWARDS OF THE PARTNERSHIP'S RESTRICTED UNITS, AWARDS OF THE PARTNERSHIP'S PHANTOM UNITS, AWARDS OF THE PARTNERSHIP'S COMMON UNITS, AWARDS OF **DISTRIBUTION EQUIVALENT** RIGHTS (OR DERS), AWARDS OF COMMON UNIT APPRECIATION RIGHTS, AND OTHER UNIT-BASED AWARDS TO EMPLOYEES AND **CONSULTANTS OF THE** APRTNERSHIP, REGENCY GP LP, REGENCY GP LLC, A SUBSIDIARY OF THEIR AFFILIATES, AND MEMBERS OF THE BOARD OF DIRECTORS OF REGENCY GP LLC. **EL PASO** 28336L109 **CORPORATION** EP Ι YES FOR **FOR** 3/9/2012 ADOPT: AGREEMENT AND PLAN OF MERGER, BY AND AMONG EL PASO CORPORATION ("EL PASO"), SIRIUS HOLDINGS MERGER CORPORATION, SIRIUS MERGER CORPORATION, KINDER MORGAN, INC., SHERPA MERGER SUB, INC. AND

SHERPA

ACQUISITION, LLC (MERGER

AGREEMENT) AND AGREEMENT & PLAN OF MERGER BY AND AMONG EL PASO, SIRIUS HOLDINGS

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MERGER CORPORATION & SIRIUS MERGER CORPORATION (FIRST MERGER AGREEMENT).

			APPROVE: ANY ADJOURNMENT OF THE SPECIAL MEETING, IF NECESSARY, TO SOLICIT ADDITIONAL PROXIES IN FAVOR OF THE PROPOSAL TO ADOPT THE MERGER AGREEMENT AND THE FIRST MERGER AGREEMENT.	I	YES	FOR	FOR
			APPROVE: ON AN ADVISORY (NON-BINDING) BASIS THE COMPENSATION THAT MAY BE PAID OR BECOME PAYABLE TO EL PASO'S NAMED EXECUTIVE OFFICERS THAT IS BASED ON OR OTHERWISE RELATES TO THE PROPOSED TRANSACTIONS.	I	YES	FOR	FOR
MMP	559080106	4/24/2012	ELECT: ROBERT G. CROYLE BARRY R. PEARL	Ι	YES	FOR	FOR
			VOTE: ADVISORY RESOLUTION TO APPROVE EXECUTIVE COMPENSATION.	I	YES	FOR	FOR
			RATIFY THE APPOINTMENT OF INDEPENDENT AUDITOR.	I	YES	FOR	FOR
NSH	67059L102	4/25/2012	ELECT: JAMES F. CLINGMAN, JR.	I	YES	FOR	FOR
			RATIFY: THE APPOINTMENT OF KPMG	I	YES	FOR	FOR

LLP AS NUSTAR HOLDINGS,

REGISTERED ACCOUNTING

LLC'S INDEPENDENT

FIRM FOR 2012.

MAGELLAN MIDSTREAM PARTNERS, L.P.

NUSTAR GP HOLDINGS, LLC

HOLLY ENERGY								
PARTNERS, L.P.	HEP	435763107	4/25/2012	APPROVE: AN AMENDMENT AND RESTATEMENT OF THE HOLLY ENERGY PARTNERS, L.P. 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 1,250,000 COMMON UNITS (THE "LTIP PROPOSAL").	I	YES	FOR	FOR
				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.	I	YES	FOR	FOR
KINDER MORGAN, INC.	KMI	49456B101	5/9/2012	ELECT: RICHARD D. KINDER C. PARK SHAPER STEVEN J. KEAN HENRY CORNELL DEBORAH A. MACDONALD MICHAEL MILLER MICHAEL C. MORGAN KENNETH A. PONTARELLI FAYEZ SAROFIM JOEL V. STAFF JOHN STOKES R. BARAN TEKKORA GLENN A. YOUNGKIN	I	YES	FOR	FOR

RATIFY:

FOR

YES FOR

I

THE SELECTION OF
PRICEWATERHOUSECOOPERS
LLP AS OUR INDEPENDENT
REGISTERED PUBLIC
ACCOUNTING FIRM FOR 2012.

APPROVE:	I
ON AN ADVISORY BASIS, OF	
THE COMPENSATION OF OUR	
NAMED EXECUTIVE	
OFFICERS.	

APPROVE:

I YES YEAR AGAIN
THE FREQUENCY WITH
WHICH WE WILL HOLD AN
ADVISORY VOTE ON THE
COMPENSATION OF OUR
NAMED EXECUTIVE

YES FOR

1

FOR

LEGACY 524707304

RESERVES, L.P. LGCY 5/9/2012 ELECT: I YES FOR FOR

OFFICERS.

CARY D. BROWN
KYLE A. MCGRAW
DALE A. BROWN
G. LARRY LAWRENCE
WILLIAM D. SULLIVAN
WILLIAM R. GRANBERRY
KYLE D. VANN

RATIFY: I YES FOR FOR THE APPOINTMENT OF BDO
USA LLP AS OUR

USA, LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FISCAL YEAR ENDING DECEMBER 31, 2012.

COPANO 217202100

ENERGY, L.L.C. CPNO 5/17/2012 ELECT: I YES FOR FOR

JAMES G. CRUMP
ERNIE L. DANNER
SCOTT A. GRIFFITHS
MICHAEL L. JOHNSON
MICHAEL G. MACDOUGALL
R. BRUCE NORTHCUTT
T. WILLIAM PORTER
WILLIAM L. THACKER

RATIFY: I YES FOR FOR

DELOITTE & TOUCHE LLP AS OUR INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR 2012.

THE	WILLIAMS
COM	PANIES,

COMPANIES,								
INC.	WMB	969457100	5/17/2012	ELECT: DIRECTOR: ALAN S. ARMSTRONG DIRECTOR: JOSEPH R. CLEVELAND DIRECTOR: IRL F. ENGELHARDT DIRECTOR: JOHN A. HAGG DIRECTOR: JUANITA H. HINSHAW DIRECTOR: FRANK T. MACINNIS DIRECTOR: STEVEN W. NANCE DIRECTOR: JANICE D. STONEY DIRECTOR: LAURA A. SUGG	I	YES	FOR	FOR
				RATIFY: ERNST & YOUNG LLP AS AUDITORS FOR 2012.	Ι	YES	FOR	FOR
				APPROVE: BY NONBINDING ADVISORY VOTE, THE COMPANY'S EXECUTIVE COMPENSATION.	I	YES	FOR	FOR
ONEOK, INC.	OKE	682680103	5/23/2012	DIRECTOR: JAMES C. DAY	Ι	YES	FOR	FOR
				DIRECTOR: JULIE H.	т.	MEG	FOR	FOD
				EDWARDS	I		FOR	FOR
				DIRECTOR: WILLIAM L. FORD	I		FOR	FOR
				DIRECTOR: JOHN W. GIBSON DIRECTOR: BERT H. MACKIE DIRECTOR: STEVEN J.	I		FOR FOR	FOR FOR
				MALCOLM	I	YES	FOR	FOR
				DIRECTOR: JIM W. MOGG	I	YES	FOR	FOR
				DIRECTOR: PATTYE L. MOORE	I	YES	FOR	FOR
				DIRECTOR: GARY D. PARKER DIRECTOR: EDUARDO A.	I	YES	FOR	FOR
				RODRIGUEZ	I		FOR	FOR
				DIRECTOR: GERALD B. SMITH DIRECTOR: DAVID J.	Ι			FOR
				TIPPECONNIC	I	YES	FOR	FOR

	•	•						
				RATIFY: THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS THE INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM OF ONEOK, INC. FOR THE YEAR ENDING DECEMBER 31, 2012.	I	YES	FOR	FOR
				VOTE: A PROPOSAL TO APPROVE ADDITIONAL SHARES FOR ISSUANCE UNDER THE ONEOK, INC. EMPLOYEE STOCK AWARD PROGRAM.	I	YES	FOR	FOR
				APPROVE: A PROPOSAL TO AMEND AND RESTATE THE ONEOK, INC. EMPLOYEE STOCK PURCHASE PLAN TO INCREASE THE NUMBER OF SHARES AUTHORIZED FOR ISSUANCE UNDER THE PLAN.	I	YES	FOR	FOR
				APPROVE: A PROPOSAL TO AMEND THE ONEOK, INC. CERTIFICATE OF INCORPORATION TO INCREASE THE NUMBER OF AUTHORIZED SHARES OF COMMON STOCK.	I	YES	FOR	FOR
				VOTE: ADVISORY VOTE TO APPROVE THE COMPANY'S EXECUTIVE COMPENSATION.	I	YES	FOR	FOR
TARGA		87612G101						
RESOURCES CORP.	TRGP		5/25/2012	ELECT: IN SEON HWANG JOE BOB PERKINS ERSHEL C. REDD, JR.	I	YES	FOR	FOR
				RATIFY: THE SELECTION OF PRICEWATERHOUSECOOPERS LLP AS THE COMPANY'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR	I	YES	FOR	FOR
							12	

2012.

MARKWEST ENERGY		:==>100			_			
PARTNERS, L.P.	MWE	570759100	6/1/2012	ELECT: FRANK M. SEMPLE DONALD D. WOLF KEITH E. BAILEY MICHAEL L. BEATTY CHARLES K. DEMPSTER DONALD C. HEPPERMANN RANDALL J. LARSON ANNE E. FOX MOUNSEY WILLIAM P. NICOLETTI	I	YES	FOR	FOR
				APPROVE: AN AMENDMENT TO THE PARTNERSHIP'S 2008 LONG-TERM INCENTIVE PLAN TO INCREASE THE NUMBER OF COMMON UNITS AVAILABLE FOR ISSUANCE UNDER THE PLAN FROM 2.5 MILLION TO 3.7 MILLION.	I	YES	FOR	FOR
				RATIFY: DELOITTE & TOUCHE LLP AS THE PARTNERSHIP'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR THE FISCAL YEAR ENDING DECEMBER 31, 2012.	I	YES	FOR	FOR
BUCKEYE PARTNERS, L.P.	BPL	118230101	6/5/2012	ELECT: PIETER BAKKER C. SCOTT HOBBS MARK C. MCKINLEY	Ι	YES	FOR	FOR
				RATIFY: THE SELECTION OF DELOITTE & TOUCHE LLP AS BUCKEYE PARTNERS, L.P.'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR 2012.	I	YES	FOR	FOR
PENN VIRGINIA RESOURCE								
PARTNERS, L.P.	PVR	707884102	6/6/2012	ELECT: JAMES L. GARDNER	I	YES	FOR	FOR

THOMAS W. HOFMANN	1
WILLIAM H. SHEA, JR.	

				APPROVE:	I	YES	FOR	FOR
PARTNERS LP				AN AMENDMENT AND RESTATEMENT OF THE GLOBAL PARTNERS LP 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 4,300,000 COMMON UNITS (THE "LTIP PROPOSAL").				
GLOBAL PARTNERS LP	GLP	37946R109	6/22/2012	APPROVE:	I	YES	FOR	FOR
				RATIFY: THE APPOINTMENT OF PRICEWATERHOUSECOOPERS LLP AS THE INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE YEAR ENDING DECEMBER 31, 2012.	I	YES	FOR	FOR
BREITBURN ENERGY PARTNERS L.P.	BBEP	106776107	6/21/2012	ELECT: JOHN R. BUTLER, JR. GREGORY J. MORONEY	Ι	YES	FOR	FOR
				RATIFY: THE APPOINTMENT OF KPMG LLP AS THE INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE 2012 FISCAL YEAR.	Ι	YES	FOR	FOR
				VOTE: ADVISORY RESOLUTION APPROVING EXECUTIVE COMPENSATION.	I	YES	FOR	FOR
				THOMAS W. HOFMANN WILLIAM H. SHEA, JR.				

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.