

Kayne Anderson MLP Investment CO  
Form N-PX  
August 15, 2011

OMB APPROVAL

OMB Number: 3235-0582

Expires: March 31, 2012

Estimated average burden  
hours per response 9.6

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, 2010 - June 30, 2011

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 15, 2011 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 (D)ssuer or (S)hrhldr	Vote Cast?	How Voted	For/Against Mgmt
CAPITAL PRODUCT PARTNERS L.P.	CPLP	Y11082107	7/22/2010	ELECT: CLASS III DIRECTOR UNTIL THE 2013 ANNUAL MEETING NOMINEE: A. KEITH FORMAN	I	YES	FOR	FOR
				ELECT: CLASS III DIRECTOR UNTIL THE 2013 ANNUAL MEETING NOMINEE: A. EVANGELOS G. BAIRACTARIS	I	YES	FOR	FOR
WILLIAMS PIPELINE PARTNERS L.P.	WMZ	96950K103	8/31/2010	APPROVE & ADOPT: AGREEMENT AND PLAN OF MERGER DATED AS OF MAY 24, 2010 BY AND AMONG WILLIAMS PARTNERS L.P., WILLIAMS PARTNERS GP LLC, WILLIAMS PARTNERS OPERATING LLC, WPZ OPERATING COMPANY MERGER SUB LLC, WILLIAMS PIPELINE PARTNERS L.P. AND WILLIAMS PIPELINE GP, LLC, AS IT MAY BE AMENDED FROM TIME TO TIME AND THE MERGER OF THE MERGER SUB WITH AND INTO WILLIAMS PIPELINE PARTNERS L.P. CONTEMPLATED BY THE MERGER AGREEMENT.	I	YES	FOR	FOR
EAGLE ROCK ENERGY PARTNERS, L.P.	EROC	26985R104	9/17/2010	APPROVE:				

THE TERMS OF THE AMENDED AND RESTATED EAGLE ROCK ENERGY PARTNERS, L.P. LONG TERM INCENTIVE PLAN	I	YES	FOR	FOR
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BUCKEYE GP  
HOLDINGS

L.P.                   BGH 118167105 11/16/2010 APPROVE:

THE FIRST AMENDED AND RESTATED AGREEMENT AND PLAN OF MERGER BY AND AMONG BUCKEYE PARTNERS, L.P., BUCKEYE GP LLC, THE GENERAL PARTNER OF THE PARTNERSHIP, GRAND OHIO, LLC, BUCKEYE GP HOLDINGS L.P. AND MAINLINE MANAGEMENT LLC, THE MERGER AND THE TRANSACTIONS CONTEMPLATED THEREBY	I	YES	FOR	FOR
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BUCKEYE  
PARTNERS,  
L.P.

BPL 118230101 11/17/2010 APPROVE:

THE FIRST AMENDED AND RESTATED AGREEMENT AND PLAN OF MERGER BY AND AMONG BUCKEYE PARTNERS, L.P., BUCKEYE GP LLC, THE GENERAL PARTNER OF THE PARTNERSHIP, GRAND OHIO, LLC, BUCKEYE GP HOLDINGS L.P. AND MAINLINE MANAGEMENT LLC, DATED AS OF AUGUST 18, 2010 AND THE TRANSACTIONS CONTEMPLATED THEREBY, ALL AS MORE FULLY DESCRIBED IN THE PROXY STATEMENT	I	YES	FOR	FOR
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Approval: THE AMENDED AND RESTATED AGREEMENT OF LIMITED PARTNERSHIP OF THE PARTNERSHIP	I	YES	FOR	FOR
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NRGP 45661Q107 11/2/2010 APPROVE:

INERGY  
HOLDINGS,  
L.P.

FIRST AMENDED AND RESTATED AGREEMENT AND PLAN OF MERGER BY AND AMONG INERGY, L.P., INERGY GP, LLC, THE MANAGING GENERAL PARTNER OF INERGY, HOLDINGS, INERGY HOLDINGS GP, LLC, THE GENERAL PARTNER OF HOLDINGS, NRGP LIMITED PARTNER, LLC, A WHOLLY OWNED SUBSIDIARY OF HOLDINGS GP AND NRGP MS, LLC A WHOLLY OWNED SUBSIDIARY OF HOLDINGS GP DATED AS OF SEPTEMBER 3, 2010, AS SUCH AGREEMENT MAY BE AMENDED FROM TIME TO TIME, PURSUANT TO WHICH, AMONG OTHER THINGS, MERGERCO WILL MERGE WITH AND INTO HOLDINGS, THE SEPARATE EXISTENCE OF MERGERCO WILL CEASE AND HOLDINGS WILL SURVIVE AND CONTINUE TO EXIST AS A DELAWARE LIMITED PARTNERSHIP, SUCH THAT IMMEDIATELY FOLLOWING CONSUMMATION OF THE MERGER, HOLDINGS GP WILL CONTINUE TO BE THE SOLE GENERAL PARTNER OF HOLDINGS, AND HOLDINGS GP AND NEW NRGP LP WILL REMAIN AS THE ONLY HOLDERS OF LIMITED PARTNER INTERESTS IN HOLDINGS.

I YES FOR FOR

TRANSACTION:  
OTHER BUSINESS AS MAY PROPERLY COME BEFORE THE SPECIAL MEETING AND ANY ADJOURNMENT OF POSTPONEMENT THEREOF

I YES FOR FOR

COPANO  
ENERGY,  
L.L.C.

CPNO 217202100 11/17/2010 APPROVE:

I YES FOR FOR

CHANGES TO THE TERMS OF  
SERIES A CONVERTIBLE  
PREFERRED UNITS TO  
PROVIDE FOR FULL VOTING  
RIGHTS FOR SUCH UNITS  
AND FULL CONVERTIBILITY  
OF SUCH UNITS INTO  
COMMON UNITS ON A  
ONE-FOR-ONE BASIS AND  
THE ISSUANCE OF  
ADDITIONAL COMMON  
UNITS UPON CONVERSION OF  
SERIES A CONVERTIBLE  
PREFERRED UNITS

PENN  
VIRGINIA GP  
HOLDINGS,  
L.P.

PVG 70788P105 2/16/2011 CONSIDER AND VOTE:

I YES FOR FOR

ON THE APPROVAL AND  
ADOPTION OF (A) THE  
AGREEMENT AND PLAN OF  
MERGER BY AND AMONG  
PENN VIRGINIA RESOURCE  
PARTNERS, L.P., PENN  
VIRGINIA RESOURCE G.P.,  
LLC, PVR RADNOR, LLC,  
PENN VIRGINIA GP  
HOLDINGS, L.P. AND PVG GP,  
LLC, THE GENERAL PARTNER  
OF HOLDINGS, (B) MERGER &  
(C) TRANSACTIONS  
CONTEMPLATED THEREBY,  
ALL AS MORE FULLY  
DESCRIBED IN THE PROXY  
STATEMENT.

CONSIDER AND VOTE:

I YES FOR FOR

UPON ANY PROPOSAL THAT  
MAY BE PRESENTED TO  
ADJOURN THE PARTNERSHIP  
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

PENN  
VIRGINIA  
RESOURCE  
PARTNERS,  
L.P.

PVR 707884102 2/16/2011

CONSIDER AND VOTE:  
ON THE APPROVAL AND  
ADOPTION OF (A) THE  
AGREEMENT AND PLAN OF  
MERGER BY AND AMONG  
PENN VIRGINIA RESOURCE  
PARTNERS, L.P., PENN  
VIRGINIA RESOURCE G.P.,  
LLC, PVR RADNOR, LLC,  
PENN VIRGINIA GP  
HOLDINGS, L.P. AND PVG GP,  
LLC, THE GENERAL PARTNER  
OF HOLDINGS, (B) MERGER &  
(C) TRANSACTIONS  
CONTEMPLATED THEREBY,  
ALL AS MORE FULLY  
DESCRIBED IN THE PROXY  
STATEMENT.

I YES FOR FOR

CONSIDER AND VOTE:  
UPON THE APPROVAL AND  
ADOPTION OF THE FOURTH  
AMENDED AND RESTATED  
AGREEMENT OF LIMITED  
PARTNERSHIP OF THE  
PARTNERSHIP

I YES FOR FOR

CONSIDER AND VOTE:  
UPON ANY PROPOSAL THAT  
MAY BE PRESENTED TO  
ADJOURN THE PARTNERSHIP  
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

I YES FOR FOR

MAGELLAN  
MIDSTREAM  
PARTNERS

L.P. MMP 559080106 4/27/2011

ELECT:  
JAMES C. KEMPNER  
MICHAEL N. MEARS

I YES FOR FOR

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JAMES R. MONTAGUE								
	AMEND:	I	YES	FOR	FOR			
LONG TERM INCENTIVE PLAN								
	VOTE:	I	YES	FOR	FOR			
ON EXECUTIVE COMPENSATION								
	VOTE:	I	3YR	AGAINST	1 YEAR			
FREQUENCY OF VOTE TO APPROVE COMPENSATION OF EXECUTIVES								
ONEOK, INC.	OKE	682680103	5/25/2011	ELECT:	I	YES	FOR	FOR
JAMES C. DAY								
JULE H. EDWARDS								
WILLIAM L. FORD								
JOHN W. GIBSON								
BERT H. MACKIE								
JIM W. MOGG								
PATTYE L. MOORE								
GARY D. PARKER								
EDUARDO A. RODRIGUEZ								
GERAL B. SMITH								
DAVID J. TIPPECONNIC								
	RATIFY:	I	YES	FOR	FOR			
PRICewaterhouseCOOPERS LLP AS THE INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR YE DEC 31, 2011								
	APPROVE:	I	YES	FOR	FOR			
ADVISORY VOTE ON EXECUTIVE COMPENSATION								
	APPROVE:	I	1 YEAR	FOR	FOR			
ADVISORY VOTE ON THE FREQUENCY OF HOLDING THE ADVISORY VOTE ON EXECUTIVE COMPENSATION								
LEGACY RESERVES LP	LGCY	524707304	5/11/2011	ELECT:	I	YES	FOR	FOR
CARY D. BROWN								
KYLE A. MCGRAW								
DALE A . BROWN								

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G. LARRY LAWRENCE

WILLIAM D. SULLIVAN

WILLIAM R. GRANBERRY

KYLE D. VANN

APPROVE:	I	YES	FOR	FOR
EXECUTIVE COMPENSATION				

VOTE:	I	3 YEAR AGAINST	1 YEAR
ON FREQUENCY OF ADVISORY VOTES ON EXECUTIVE COMPENSATION			

RATIFY:	I	YES	FOR	FOR
APPOINTMENT OF BDO USA, LLP AS INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM FOR THE FY ENDING DECEMBER 31, 2011				

BUCKEYE  
PARTNERS,  
L.P.

BPL 118230101 6/7/2011

ELECT:	I	YES	FOR	FOR
FORREST E. WYLIE JOSEPH A. LASALA, JR. MARTIN A. WHITE				

RATIFY:	I	YES	FOR	FOR
DELOITTE & TOUCHE LLP				

VOTE:	I	YES	FOR	FOR
ADVISORY RESOLUTION ON EXECUTIVE COMPENSATION				

VOTE:	I	3 YEAR	FOR	FOR
FREQUENCY OF FUTURE ADVISORY VOTES ON EXECUTIVE COMPENSATION				

COPANO  
ENERGY,  
L.L.C.

CPNO 217202100 5/18/2011

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 2011					
			APPROVE:	I	YES	FOR	FOR	
			AMENDMENT TO THE COMPANY'S LONG-TERM INCENTIVE PLAN TO INCREASE THE NUMBER OF COMMON UNITS FROM 5,000,000 TO 6,200,000					
			APPROVE:	I	YES	FOR	FOR	
			AMENDMENT TO THE COMPANY'S LONG-TERM INCENTIVE PLAN TO EXTEND THE TERM OF THE PLAN FROM NOVEMBER 15, 2014 TO NOVEMBER 15, 2019					
			VOTE:	I	YES	FOR	FOR	
			ON THE COMPENSATION PHILOSOPHY, POLICIES AND PROCEDURES AND THE EXECUTIVE COMPENSATION DISCLOSED IN THIS PROXY STATEMENT.					
			VOTE:	I	3 YEAR AGAINST	1 YEAR		
			ON THE FREQUENCY OF THE ADVISORY VOTE ON EXECUTIVE COMPENSATION					
PENN VIRGINIA RESOURCE PARTNERS, L.P.	PVR	707884102	6/22/2011	ELECT:	I	YES	FOR	FOR
				EDWARD B. CLOUES, II				
				JAMES L. GARDNER				
				ROBERT J. HALL				
				THOMAS W. HOFMANN				
				JAMES R. MONTAGUE				
				MARSHA R. PERELMAN				
				WILLIAM H. SHEA, JR.				
				JOHN C. VAN RODEN, JR.				
				JONATHAN B. WELLER				

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	APPROVE:	I	YES	FOR	FOR
	BY ADVISORY (NON-BINDING) VOTE, EXECUTIVE COMPENSATION				

	RECOMMEND:	I	1 YEAR AGAINST	3 YEARS	
	BY ADVISORY (NON-BINDING) VOTE, THE FREQUENCY OF FUTURE ADVISORY VOTES ON EXECUTIVE COMPENSATION				

MARKWEST  
ENERGY  
PARTNERS,  
L.P.

MWE 570759100 6/1/2011

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				

	APPROVE:	I	YES	FOR	FOR
	ON AN ADVISORY BASIS THE COMPENSATION OF THE PARTNERSHIP'S NAMED EXECUTIVE OFFICERS AS DESCRIBED IN THE PARTNERSHIP'S PROXY STATEMENT FOR THE 2011 ANNUAL MEETING OF COMMON UNITHOLDERS				

	RECOMMEND:	I	3 YEARS	FOR	3 YEARS
	ON AN ADVISORY BASIS, THE FREQUENCY OF THE ADVISORY VOTE ON THE COMPENSATION OF THE PARTNERSHIP'S NAMED EXECUTIVE OFFICERS				

	RATIFY:	I	YES	FOR	FOR
	DELOITTE & TOUCHE LLP AS THE PARTNERSHIP'S INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS FOR				

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THE FY ENDING DECEMBER  
31, 2011

EAGLE ROCK  
ENERGY  
PARTNERS,  
L.P.

EROC 26985R104 6/7/2011

ELECT: I YES FOR FOR  
WILLIAM K. WHITE

APPROVE: I YES FOR FOR  
ADVISORY VOTE ON  
COMPENSATION OF OUR  
NAMES EXECUTIVE  
OFFICERS

APPROVE: I 1 YEAR FOR 1 YEAR  
ADVISORY VOTE ON THE  
FREQUENCY OF FUTURE  
ADVISORY VOTES ON  
COMPENSATION OF THE  
COMPANY'S NAMED  
EXECUTIVE OFFICERS

TEEKAY  
TANKERS  
LTD.

TNK Y8565N102 6/10/2011

ELECT: I YES FOR FOR  
C. SEAN DAY  
BJORN MOLLER  
PETER EVENSEN  
RICHARD T. DU MOULIN  
RICHARD J.F. BRONKS  
WILLIAM LAWES