

Kayne Anderson MLP Investment CO  
Form N-Q  
October 30, 2013  
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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

**FORM N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS 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, 14<sup>th</sup> Floor**

**Houston, Texas 77002**

(Address of principal executive offices) (Zip code)

**David Shladovsky, Esq.**

**KA Fund Advisors, LLC**

**811 Main Street, 14<sup>th</sup> Floor**

**Houston, Texas 77002**

(Name and address of agent for service)

**Registrant's telephone number, including area code: (713) 493-2020**

Date of fiscal year end: November 30, 2013

Date of reporting period: August 31, 2013

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Description	No. of Shares/Units	Value
<b>Long-Term Investments 178.5%</b>		
<b>Equity Investments<sup>(1)</sup> 178.5%</b>		
<b>Midstream MLP<sup>(2)</sup> 148.1%</b>		
Access Midstream Partners, L.P.	2,598	\$ 118,495
Atlas Pipeline Partners, L.P.	1,360	52,753
Buckeye Partners, L.P.	1,249	87,453
Buckeye Partners, L.P. Class B Unif <sup>(3)(4)(5)</sup>	984	68,855
Crestwood Midstream Partners LP	4,354	112,949
Crosstex Energy, L.P.	5,563	104,136
DCP Midstream Partners, LP	4,845	232,202
El Paso Pipeline Partners, L.P.	4,143	172,891
Enbridge Energy Management, L.L.C. <sup>(4)</sup>	236	7,081
Enbridge Energy Partners, L.P.	6,249	186,339
Energy Transfer Partners, L.P. <sup>(6)</sup>	5,382	275,921
Enterprise Products Partners L.P. <sup>(6)</sup>	8,868	526,928
Global Partners LP	2,050	69,259
Inergy, L.P.	4,329	59,481
Inergy Midstream, L.P.	5,790	134,564
Kinder Morgan Energy Partners, LP	2,486	202,727
Kinder Morgan Management, LLC <sup>(4)</sup>	3,952	315,546
Magellan Midstream Partners, L.P.	2,705	146,747
MarkWest Energy Partners, L.P. <sup>(7)</sup>	5,387	359,798
Niska Gas Storage Partners LLC	2,012	28,470
NuStar Energy L.P.	1,369	57,100
ONEOK Partners, L.P.	3,907	193,724
Phillips 66 Partners LP <sup>(8)</sup>	181	5,572
Plains All American Pipeline, L.P. <sup>(7)</sup>	6,902	348,955
PVR Partners, L.P. <sup>(7)</sup>	5,169	119,981
QEP Midstream Partners, LP <sup>(8)</sup>	519	11,755
Regency Energy Partners LP	8,797	237,772
Rose Rock Midstream, L.P.	24	787
Summit Midstream Partners, LP	1,003	33,091
Sunoco Logistics Partners L.P.	164	10,555
Tallgrass Energy Partners, LP	161	3,658
Targa Resources Partners L.P.	2,304	112,593
Tesoro Logistics LP	526	28,191
Western Gas Partners, LP	1,899	112,289
Williams Partners L.P.	6,790	334,947
		4,873,565

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**Midstream 9.4%**

Kinder Morgan, Inc.	1,447	54,877
ONEOK, Inc.	1,610	82,808
Plains All American GP LLC Unregistered <sup>(A)(7)</sup>	24	108,280
Targa Resources Corp.	308	20,946
The Williams Companies, Inc.	1,185	42,944

309,855

**Table of Contents****KAYNE ANDERSON MLP INVESTMENT COMPANY****SCHEDULE OF INVESTMENTS****AUGUST 31, 2013****(amounts in 000 s, except number of option contracts)****(UNAUDITED)**

<b>Description</b>	<b>No. of Shares/Units</b>	<b>Value</b>
<b>Shipping MLP 7.5%</b>		
Capital Product Partners L.P.	2,841	\$ 25,170
Capital Products Partners L.P. Class B Units <sup>(3)(9)</sup>	3,030	28,758
Golar LNG Partners LP	939	30,528
KNOT Offshore Partners LP	384	9,223
Navios Maritime Partners L.P.	1,286	18,145
Teekay LNG Partners L.P.	1,130	47,531
Teekay Offshore Partners L.P.	2,715	86,269
		245,624
<b>Upstream MLP &amp; Income Trust 4.7%</b>		
BreitBurn Energy Partners L.P.	2,190	38,689
EV Energy Partners, L.P.	238	8,690
Legacy Reserves L.P.	682	18,388
LRR Energy, L.P.	317	4,769
Mid-Con Energy Partners, LP	2,127	50,696
Pacific Coast Oil Trust	578	10,502
SandRidge Mississippian Trust II	593	7,922
SandRidge Permian Trust	678	9,873
VOC Energy Trust	282	4,309
		153,838
<b>General Partner MLP 4.1%</b>		
Alliance Holdings GP L.P.	1,935	118,891
NuStar GP Holdings, LLC	320	7,574
Western Gas Equity Partners, LP	250	9,853
		136,318
<b>Other 4.7%</b>		
Alliance Resource Partners, L.P.	153	11,529
Clearwater Trust <sup>(3)(7)(10)</sup>	N/A	2,110
Emerge Energy Services LP <sup>(7)</sup>	267	7,694
Exterran Partners, L.P.	2,664	74,396
Natural Resource Partners L.P.	85	1,658
PetroLogistics LP	893	10,725
SunCoke Energy Partners, L.P.	997	22,955
USA Compression Partners, LP	964	23,612

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	154,679
<b>Total Equity Investments (Cost \$3,546,213)</b>	5,873,879
<b>Liabilities</b>	
<b>Credit Facility</b>	(13,000)
<b>Senior Unsecured Notes</b>	(1,175,000)
<b>Mandatory Redeemable Preferred Stock at Liquidation Value</b>	(399,000)
<b>Current Tax Liability</b>	(8,314)
<b>Deferred Tax Liability</b>	(973,375)
<b>Other Liabilities</b>	(34,768)
<b>Total Liabilities</b>	(2,603,457)
<b>Other Assets</b>	20,915
<b>Total Liabilities in Excess of Other Assets</b>	(2,582,542)
<b>Net Assets Applicable to Common Stockholders</b>	\$ 3,291,337

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**KAYNE ANDERSON MLP INVESTMENT COMPANY**

**SCHEDULE OF INVESTMENTS**

**AUGUST 31, 2013**

**(amounts in 000 s, except number of option contracts)**

**(UNAUDITED)**

- (1) Unless otherwise noted, equity investments are common units/common shares.
- (2) Includes limited liability companies.
- (3) Fair valued securities, restricted from public sale.
- (4) Distributions are paid-in-kind.
- (5) On September 1, 2013, all of the Buckeye Partners, L.P. Class B Units were converted into common units on a one-for-one basis. As of August 31, 2013, the Company valued the Class B Units at the same price as the common units.
- (6) In lieu of cash distributions, the Company has elected to receive distributions in additional units through the partnership's dividend reinvestment program.
- (7) The Company believes that it is an affiliate of Clearwater Trust, Emerge Energy Services LP, MarkWest Energy Partners, L.P., PVR Partners, L.P., Plains All American Pipeline, L.P. and Plains All American GP LLC.
- (8) Security is not currently paying cash distributions but is expected to pay cash distributions within the next 12 months.
- (9) Class B Units are convertible on a one-for-one basis into common units of Capital Product Partners L.P. ( CPLP ) and are senior to the common units in terms of liquidation preference and priority of distributions. The Class B Units pay quarterly cash distributions of \$0.21375 per unit and are convertible at any time at the option of the holder. If CPLP increases the quarterly cash distribution per common unit, the distribution per Class B Unit will increase by an equal amount. If CPLP does not redeem the Class B Units by May 2022, then the distribution increases by 25% per quarter to a maximum of \$0.33345 per unit. CPLP may require that the Class B Units convert into common units after May 2015 if the common unit price exceeds \$11.70 per unit, and the Class B Units are callable after May 2017 at a price of \$9.27 per unit and after May 2019 at \$9.00 per unit.
- (10) The Company owns an interest in the Creditors Trust of Miller Bros. Coal, LLC ( Clearwater Trust ) consisting of a coal royalty interest.



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From time to time, certain of the Company's investments may be restricted as to resale. For instance, private investments that are not registered under the Securities Act of 1933, as amended (the "Securities Act"), cannot be offered for public sale in a non-exempt transaction without first being registered. In other cases, certain of the Company's investments have restrictions such as lock-up agreements that preclude the Company from offering these securities for public sale.

At August 31, 2013, the Company held the following restricted investments:

Investment	Acquisition Date	Type of Restriction	Number of Units (in 000's)	Cost Basis	Fair Value	Fair Value Per Unit	Percent of Net Assets	Percent of Total Assets
<b>Level 3 Investments<sup>(1)</sup></b>								
Buckeye Partners, L.P.								
Class B Units	(2)	(3)	984	\$ 45,006	\$ 68,855	\$ 70.00	2.1%	1.2%
Capital Products Partners L.P.								
Class B Units	(2)	(3)	3,030	23,268	28,758	9.49	0.8	0.5
Clearwater Trust								
Trust Interest	(4)	(5)	N/A	3,266	2,110	N/A	0.1	0.0
Plains All American GP LLC <sup>(6)</sup>								
Common Units	(2)	(5)	24					