

Kayne Anderson MLP Investment CO
Form N-Q
October 29, 2012
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 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)

717 Texas Avenue, Suite 3100,

Houston, Texas 77002

(Address of principal executive offices) (Zip code)

David 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: (713) 493-2020

Date of fiscal year end: November 30, 2012

Date of reporting period: August 31, 2012

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Description	No. of Shares/Units	Value
Long-Term Investments 174.4%		
Equity Investments⁽¹⁾ 173.0%		
Midstream MLP⁽²⁾ 117.3%		
Access Midstream Partners, L.P.	2,485	\$ 74,866
Boardwalk Pipeline Partners, LP	1,215	32,834
Buckeye Partners, L.P. ⁽³⁾	1,700	84,015
Buckeye Partners, L.P. Class B Units ⁽³⁾⁽⁴⁾⁽⁵⁾	903	41,715
Copano Energy, L.L.C.	1,388	42,596
Crestwood Midstream Partners LP	2,401	59,073
Crestwood Midstream Partners LP Class C Units ⁽⁴⁾⁽⁵⁾	1,175	27,604
Crosstex Energy, L.P.	551	8,197
DCP Midstream Partners, LP	2,507	108,171
DCP Midstream Partners, LP ⁽⁴⁾	338	14,126
El Paso Pipeline Partners, L.P.	5,133	185,770
Enbridge Energy Partners, L.P.	4,628	136,334
Energy Transfer Partners, L.P.	951	40,607
Enterprise Products Partners L.P.	7,582	404,882
Global Partners LP	2,054	51,630
Inergy, L.P.	4,047	87,243
Inergy Midstream, L.P.	1,164	27,123
Magellan Midstream Partners, L.P. ⁽⁶⁾	1,602	132,927
MarkWest Energy Partners, L.P. ⁽³⁾	4,739	251,627
Niska Gas Storage Partners LLC	1,887	23,907
NuStar Energy L.P.	723	36,659
ONEOK Partners, L.P.	2,718	154,419
Plains All American Pipeline, L.P. ⁽³⁾	3,426	296,443
PVR Partners, L.P. ⁽³⁾	4,647	113,191
Regency Energy Partners LP	7,733	178,939
Spectra Energy Partners, L.P.	348	11,144
Targa Resources Partners L.P.	1,634	66,193
Tesoro Logistics LP ⁽⁶⁾	464	20,234
Western Gas Partners, LP	1,472	70,299
Williams Partners L.P.	3,573	184,292
		2,967,060
MLP Affiliate⁽²⁾ 14.7%		
Enbridge Energy Management, L.L.C. ⁽⁵⁾	1,527	47,523
Kinder Morgan Management, LLC ⁽⁵⁾	4,372	324,069

371,592

General Partner MLP 11.9%

Alliance Holdings GP L.P.	1,931	93,445
Energy Transfer Equity, L.P.	4,691	206,157

299,602

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Description	No. of Shares/Units	Value
Midstream 9.3%		
Kinder Morgan, Inc.	1,162	\$ 41,551
ONEOK, Inc.	1,510	67,218
Plains All American GP LLC Unregistered ^{(d)(4)}	24	54,932
Targa Resources Corp.	214	9,688
The Williams Companies, Inc.	1,920	61,955
		235,344
Shipping MLP 8.5%		
Capital Product Partners L.P.	2,841	21,875
Golar LNG Partners LP	201	6,405
Navios Maritime Partners L.P.	1,876	27,147
Teekay LNG Partners L.P.	1,696	67,375
Teekay Offshore Partners L.P.	3,263	92,646
		215,448
Other MLP 5.5%		
Calumet Specialty Products Partners, L.P.	346	9,877
Exterran Partners, L.P.	2,903	61,834
Hi-Crush Partners LP ⁽⁷⁾	1,522	29,611
Northern Tier Energy LP ⁽⁷⁾	865	15,831
PetroLogistics LP	1,784	22,814
		139,967
Upstream MLP & Income Trust 5.1%		
BreitBurn Energy Partners L.P.	2,206	43,177
Legacy Reserves L.P.	325	9,064
LRR Energy, L.P.	388	7,004
Memorial Production Partners LP	339	6,024
Mid-Con Energy Partners, LP	579	12,962
Pacific Coast Oil Trust	568	10,771
SandRidge Mississippian Trust II	808	16,816
SandRidge Permian Trust	893	17,837
VOC Energy Trust	347	6,224
		129,879
Coal MLP & Other 0.4%		

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Alliance Resource Partners, L.P.	131	8,134
Clearwater Trust ⁽³⁾⁽⁴⁾⁽⁸⁾	N/A	2,470
		10,604
Propane MLP 0.3%		
Suburban Propane Partners, L.P.	163	6,289
Total Equity Investments (Cost \$2,762,170)		4,375,785

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Description	Interest Rate	Maturity Date	Principal Amount	Value
Debt Investments 1.4%				
Midstream 1.2%				
Niska Gas Storage Partners LLC	8.875%	3/15/18	\$ 29,000	\$ 29,725
PVR Partners, L.P. ⁽³⁾	8.250	4/15/18	1,240	1,259
				30,984
Upstream 0.2%				
EP Energy LLC	9.375	5/1/20	4,250	4,627
Total Energy Debt Investments (Cost \$33,211)				35,611
Total Long-Term Investments (Cost \$2,795,381)				4,411,396
			No. of	
			Contracts	
Liabilities				
Call Option Contracts Written⁽⁹⁾				
Midstream				
Magellan Midstream Partners, L.P., call option expiring 9/21/12 @ \$80.00			600	(197)
Tesoro Logistics LP, call option expiring 9/21/12 @ \$40.00			200	(71)
Total Call Option Contracts Written (Premiums Received \$85)				(268)
Senior Unsecured Notes				(890,000)
Mandatory Redeemable Preferred Stock at Liquidation Value				(374,000)
Deferred Tax Liability				(632,685)
Other Liabilities				(43,195)
Total Liabilities				(1,940,148)
Other Assets				57,933
Total Liabilities in Excess of Other Assets				(1,882,215)
Net Assets Applicable to Common Stockholders				\$2,529,181

(1) Unless otherwise noted, equity investments are common units/common shares.

- (2) Includes limited liability companies.

- (3) Kayne Anderson MLP Investment Company (the Company) believes that it is an affiliate of Buckeye Partners, L.P., the Clearwater Trust, MarkWest Energy Partners, L.P., PVR Partners, L.P., Plains All American Pipeline, L.P. and Plains All American GP LLC.