

Kayne Anderson MLP Investment Company Provides Unaudited Balance Sheet Information and Announces its Net Asset Value and Asset Coverage Ratios at April 30, 2009

Houston, TX – May 1, 2009 – Kayne Anderson MLP Investment Company (the “Company”) (NYSE: KYN) today provided a summary unaudited balance sheet and announced its net asset value and asset coverage ratios under the Investment Company Act of 1940 (the “1940 Act”) as of April 30, 2009.

As of April 30, 2009, the Company’s net assets were \$706 million and its net asset value per share was \$15.76. As of April 30, 2009, the Company’s asset coverage ratio under the 1940 Act with respect to senior securities representing indebtedness was 357% and the Company’s asset coverage ratio under the 1940 Act with respect to total leverage (debt and preferred stock) was 286%.

Kayne Anderson MLP Investment Company
Balance Sheet
April 30, 2009
(Unaudited)

	<u>(in millions)</u>
Investments	\$ 1,021.2
Repurchase agreements and cash	32.8
Deposits	0.3
Net deferred tax asset ⁽¹⁾	47.8
Accrued income	9.1
Receivable for securities sold	8.9
Other assets	<u>2.4</u>
Total assets	1,122.5
Short-term borrowings	-
Senior notes	304.0
Preferred stock	<u>75.0</u>
Total leverage	<u>379.0</u>
Payable for securities purchased	28.2
Other liabilities	<u>9.3</u>
Total liabilities	37.5
Net assets	<u>\$ 706.0</u>

44.8 million common shares currently outstanding

(1) The Company had no valuation allowance at April 30, 2009

Long-term investments were comprised of Midstream MLPs (64%), MLP Affiliates (9%), Propane MLPs (7%), General Partner MLPs (13%), Coal MLPs (2%), Upstream MLPs (1%), and Shipping and Other MLPs (4%).

The Company's ten largest holdings by issuer at April 30, 2009 were:

	Units/Par (\$ (in thousands)	Amount (\$ millions)	Percent of Long-Term Investments
1. Plains All American Pipeline, L.P. (Midstream MLP)	2,876	121.8	11.9%
2. Enterprise Products Partners L.P. (Midstream MLP)	3,816	90.0	8.8%
3. Energy Transfer Partners, L.P. (Midstream MLP)	2,161	85.5	8.4%
4. Kinder Morgan Management, LLC (MLP Affiliate)	1,909	78.0	7.6%
5. Inergy, L.P. (Propane MLP)	3,156	72.9	7.1%
6. Magellan Midstream Holdings, L.P. (General Partner MLP)	3,054	60.6	5.9%
7. Copano Energy Partners, L.L.C. (Midstream MLP)	3,553 / \$2,200	57.6	5.6%
8. Energy Transfer Equity, L.P. (Midstream MLP)	1,609	41.2	4.0%
9. Enbridge Energy Partners L.P. (Midstream MLP)	1,132	41.0	4.0%
10. Markwest Energy Partners, L.P. (Midstream MLP)	2,564 / \$4,295	40.3	3.9%

Kayne Anderson MLP Investment Company is a non-diversified, closed-end management investment company registered under the Investment Company Act of 1940, whose common stock is traded on the NYSE. The Company's investment objective is to obtain a high after-tax total return by investing at least 85% of its total assets in energy-related master limited partnerships and their affiliates, and in other companies that, as their principal business, operate assets used in the gathering, transporting, processing, storing, refining, distributing, mining or marketing natural gas, natural gas liquids (including propane), crude oil, refined petroleum products or coal.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS: This press release contains "forward-looking statements" as defined under the U.S. federal securities laws. Generally, the words "believe," "expect," "intend," "estimate," "anticipate," "project," "will" and similar expressions identify forward-looking statements, which generally are not historical in nature. Forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ from the Company's historical experience and its present expectations or projections indicated in any forward-looking statements. These risks include, but are not limited to, changes in economic and political conditions; regulatory and legal changes; MLP industry risk; leverage risk; valuation risk; interest rate risk; tax risk; and other risks discussed in the Company's filings with the SEC. You should not place undue reliance on forward-looking statements, which speak only as of the date they are made. The Company undertakes no obligation to publicly update or revise any forward-looking statements made herein. There is no assurance that the Company's investment objectives will be attained.

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SOURCE: Kayne Anderson MLP Investment Company