

Kayne Anderson MLP Investment Company Provides Unaudited Balance Sheet Information and Announces its Net Asset Value and Asset Coverage Ratios at April 30, 2017

Houston, TX – May 1, 2017 – Kayne Anderson MLP Investment Company (the “Company”) (NYSE: KYN) today provided a summary unaudited statement of assets and liabilities and announced its net asset value and asset coverage ratios under the Investment Company Act of 1940 (the “1940 Act”) as of April 30, 2017.

As of April 30, 2017, the Company’s net assets were \$2.3 billion, and its net asset value per share was \$19.70. As of April 30, 2017, the Company’s asset coverage ratio under the 1940 Act with respect to senior securities representing indebtedness was 390% and the Company’s asset coverage ratio under the 1940 Act with respect to total leverage (debt and preferred stock) was 291%.

Kayne Anderson MLP Investment Company
Statement of Assets and Liabilities
April 30, 2017
(Unaudited)

	(in millions)	Per Share
Investments	\$ 4,093.4	\$ 35.82
Cash and cash equivalents	9.5	0.08
Deposits	0.2	-
Accrued income	30.9	0.27
Receivable for securities sold	0.8	0.01
Income tax receivable	7.9	0.07
Other assets	1.9	0.02
Total assets	4,144.6	36.27
Term loan	132.0	1.15
Senior notes	747.0	6.54
Unamortized notes issuance costs	(3.2)	(0.03)
Preferred stock	300.0	2.63
Unamortized preferred stock issuance costs	(2.7)	(0.02)
Total leverage	1,173.1	10.27
Other liabilities	21.6	0.19
Deferred income tax liability	698.3	6.11
Total liabilities	719.9	6.30
Net assets	\$ 2,251.6	\$ 19.70

The Company had 114,279,700 common shares outstanding as of April 30, 2017.

Long-term investments were comprised of Midstream MLP (93%), Midstream Company (5%) and Shipping MLP (2%).

The Company's ten largest holdings by issuer at April 30, 2017 were:

		Units / Shares (in thousands)	Amount (\$ millions)	Percent of Long-Term Investments
1.	Enterprise Products Partners L.P. (Midstream MLP)	19,085	\$521.4	12.7%
2.	Energy Transfer Partners, L.P. (Midstream MLP)	19,879	475.9	11.6%
3.	Williams Partners L.P. (Midstream MLP)	9,357	383.0	9.4%
4.	ONEOK Partners, L.P. (Midstream MLP)*	5,566	286.4	7.0%
5.	Plains All American Pipeline, L.P. (Midstream MLP)	8,962	262.1	6.4%
6.	MPLX LP (Midstream MLP)**	7,009	255.6	6.2%
7.	Western Gas Partners, LP (Midstream MLP)***	3,841	225.5	5.5%
8.	DCP Midstream Partners, LP (Midstream MLP)	5,210	197.4	4.8%
9.	Buckeye Partners, L.P. (Midstream MLP)	2,748	190.1	4.6%
10.	Targa Resources Corp. (Midstream Company)	3,137	172.9	4.2%

* On February 1, 2017, ONEOK, Inc. ("OKE") and ONEOK Partners, L.P. ("OKS") announced an agreement under which OKE will acquire all common units of OKS in a stock-for-unit transaction. As of April 30, 2017, the Company did not own any OKE shares.

** Includes 4,752 common units (\$167.5 million) and 2,255 preferred units (\$88.1 million).

*** Includes 3,774 common units (\$221.6 million) and 67 preferred units (\$3.9 million).

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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 (collectively, "MLPs"), 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 Fund'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 Fund'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 Fund undertakes no obligation to publicly update or revise any forward-looking statements made herein. There is no assurance that the Fund's investment objective will be attained.

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