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Press Release

Kayne Anderson MLP Investment Company Announces Addition to Management Team and Completes \$260 Million Offering of Senior Notes

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Los Angeles, CA -- (BUSINESS WIRE) -- Mar. 29, 2005 -- (NYSE:KYN -- News) Kayne Anderson MLP Investment Company (the "Company") has announced that David LaBonte has been hired as a Senior Managing Director at Kayne Anderson Capital Advisors, L.P. ("Kayne Anderson"), the Company's investment adviser. Mr. LaBonte is responsible for coordinating and providing research and analytical support in the areas of MLPs and other midstream energy company investments. Mr. LaBonte joins Kayne Anderson from Citigroup's Smith Barney unit, where he was a Managing Director in the U.S. Equity Research Division responsible for providing research coverage of MLPs and other midstream energy companies. Mr. LaBonte has engaged in research coverage of energy MLPs since 1998, when he joined Smith Barney.

Robert Sinnott, President and Chief Investment Officer of Kayne Anderson stated, "We are delighted that Mr. LaBonte has agreed to join our talented team of energy investment professionals. He has proven himself to be among the leading analysts in the midstream energy sector and brings valuable depth to our investment activities in this area."

In addition, the Company announced the successful completion of its \$260 million offering of auction rate senior notes ("Senior Notes"). The Senior Notes, issued in \$25,000 denominations and maturing in 2045, consist of 7-day Series A and Series B tranches, each in the amount of \$85 million, and a 28-day Series C tranche in the amount of \$90 million. All three series are rated 'Aaa' and 'AAA' by Moody's Investors Service, Inc. and Fitch Ratings, respectively. The initial interest rates on the Senior Notes are 2.95% for Series A and Series B, and 3.00% for Series C. The subsequent interest rates will be determined at weekly auctions for Series A and Series B, and monthly auctions for Series C.

The net proceeds of the offering of Senior Notes will be approximately \$257 million after the payment of underwriting discounts and offering costs. Approximately \$95 million of the proceeds will be used to repay the Company's existing short-term indebtedness, which was incurred to finance the purchase of a portion of the Company's portfolio investments in early 2005.

Kayne Anderson MLP Investment Company is a non-diversified, closed-end management investment company registered under the Investment Company Act of 1940, whose shares are traded on the New York Stock Exchange (symbol: KYN). The Company's investment objective is to obtain a high after-tax total return by investing at least 85% of the 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.

This press release does not constitute an offer to sell or a solicitation to buy, nor shall there be any sale of these securities in any state or jurisdiction in which such offer or solicitation or sale would be unlawful prior to registration or qualification under the laws of such state or jurisdiction.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS: This press release contains statements, estimates or projections that constitute "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. 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. There is no assurance that Kayne Anderson MLP Investment Company's investment objectives will be attained.

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