

Kayne Anderson MLP Investment Company Increases Distribution to \$0.655 per Share for Q4 2014

Houston, TX – December 17, 2014 – Kayne Anderson MLP Investment Company (the “Company”) (NYSE: KYN) announced today its quarterly distribution of \$0.655 per share for the quarter ended November 30, 2014. This distribution represents an increase of 0.8% from the prior quarter’s distribution of \$0.65 per share and an increase of 7.4% from the distribution for the quarter ended November 30, 2013. This represents the seventeenth consecutive quarterly increase by the Company.

The distribution will be payable on January 16, 2015 to common stockholders of record on January 7, 2015, with an ex-dividend date of January 5, 2015. The Company estimates that 100% of this distribution will be treated as a return of capital for tax purposes. This estimate is based on the Company’s anticipated earnings and profits for fiscal 2015 and its accumulated earnings and profits as of November 30, 2014. The final determination of the tax character of the distribution will be made in early 2016 when the Company can determine its actual earnings and profits for the full year (including gains and losses on the sale of securities during fiscal 2015) and may differ substantially from this preliminary information.

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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 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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