Kayne Anderson MLP Investment CO Form 497 July 10, 2013 Table of Contents

Filed pursuant to Rule 497(e)

under the Securities Act of 1933,

as amended, File No. 333-183599

PROSPECTUS SUPPLE MENT

(To Prospectus dated March 4, 2013)

6,200,000 Shares

Common Stock

\$36.00 per share

Kayne Anderson MLP Investment Company (the Company, we, us or our) is a non-diversified, closed-end management investment company. Our investment objective is to obtain a high after-tax total return by investing at least 85% of our total assets in energy-related partnerships and their affiliates (collectively, master limited partnerships or MLPs), and in other companies that, as their principal business, operate assets used in the gathering, transporting, processing, storing, refining, distributing, mining or marketing of natural gas, natural gas liquids, crude oil, refined petroleum products or coal (collectively with MLPs, Midstream Energy Companies).

We are offering 6,200,000 shares of our common stock in this prospectus supplement. This prospectus supplement, together with the accompanying prospectus dated March 4, 2013, sets forth the information that you should know before investing.

Our shares of common stock are listed on the New York Stock Exchange under the symbol KYN. The last reported sale price of our common stock on July 9, 2013 was \$37.61 per share. The net asset value per share of our common stock at the close of business on July 9, 2013 was \$34.14.

Investing in our common stock involves risk. See Risk Factors beginning on page 18 of the accompanying prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus supplement or the accompanying prospectus. Any representation to the contrary is a criminal offense.

	Per Share	Total(1)
Public offering price	\$ 36.00	\$ 223,200,000
Underwriting discounts and commissions	\$ 1.40	\$ 8,680,000
Proceeds, before expenses, to us	\$ 34.60	\$ 214,520,000

(1) We have granted the underwriters an option exercisable for a period of 45 days from the date of this prospectus supplement to purchase up to 930,000 additional shares of common stock at the public offering price, less the underwriting discount, to cover over-allotments, if any. If the underwriters exercise the option in full, the total underwriting discounts and commissions will be \$9,982,000, and the total proceeds, before expenses, to us will be \$246,698,000.

The underwriters are offering the shares of common stock as described in Underwriting. Delivery of the shares of common stock will be made on or about July 15, 2013.

Joint Book-Running Managers

Morgan Stanley BofA Merrill Lynch Citigroup UBS Investment Bank

Co-Managers

Baird Barclays Deutsche Bank Securities RBC Capital Markets Stifel

July 10, 2013

You should rely only on the information contained or incorporated by reference in this prospectus supplement and the accompanying prospectus. This prospectus supplement and the accompanying prospectus set forth certain information about us that a prospective investor should carefully consider before making an investment in our securities. This prospectus supplement, which describes the specific terms of this offering, also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference in the accompanying prospectus. The accompanying prospectus gives more general information, some of which may not apply to this offering. If the description of this offering varies between this prospectus supplement and the accompanying prospectus, you should rely on the information contained in this prospectus supplement; provided that if any statement in one of these documents is inconsistent with a statement in another document having a later date and incorporated by reference into the accompanying prospectus or prospectus supplement, the statement in the incorporated document having the later date modifies or supersedes the earlier statement. We have not authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer to sell these securities in any jurisdiction where the offer or sale is not permitted to make such offer or sale. The information contained in or incorporated by reference in this prospectus supplement and the accompanying prospectus is accurate only as of the respective dates on their front covers, regardless of the time of delivery of this prospectus supplement, the accompanying prospectus, or the sale of the common stock. Our business, financial condition, results of operations and prospects may have changed since that date.

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through November 30, 2004 and for the Fiscal Years ended November 30, 2005 through 2012

You should read this prospectus supplement and the accompanying prospectus before deciding whether to invest and retain it for future reference. A statement of additional information, dated March 4, 2013 (SAI), as supplemented from time to time, containing additional information about us, has been filed with the SEC and is incorporated by reference in its entirety into this prospectus supplement. You may request a free copy of our SAI by calling toll-free at (877) 657-3863, or by writing to us at 717 Texas Avenue, Suite 3100, Houston, Texas 77002. Electronic copies of the accompanying prospectus, our stockholder reports and our SAI are also available on our website (http://www.kaynefunds.com). You may also obtain copies of these documents (and other information regarding us) from the SEC s web site (http://www.sec.gov).

CAUTIONARY NOTICE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying prospectus and the SAI contain forward-looking statements. All statements other than statements of historical facts included in this prospectus that address activities, events or developments that we expect, believe or anticipate will or may occur in the future are forward-looking statements including, in particular, the statements about our plans, objectives, strategies and prospects regarding, among other things, our financial condition, results of operations and business. We have identified some of these forward-looking project. statements with words like believe, may, could, might, forecast, possible, potential, expect, approximate or continue and other words and terms of similar meaning and the negative of such terms. Such forward-looking statements may be contained in this prospectus supplement as well as in the accompanying prospectus. These forward-looking statements are based on current expectations about future events affecting us and are subject to uncertainties and factors relating to our operations and business environment, all of which are difficult to predict and many of which are beyond our control. Many factors mentioned in our discussion in this prospectus supplement and the accompanying prospectus, including the risks outlined under Risk Factors, will be important in determining future results. In addition, several factors that could materially affect our actual results are the ability of the MLPs and other Midstream Energy Companies in which we invest to achieve their objectives, our ability to source favorable private investments, the timing and amount of distributions and dividends from the MLPs and other Midstream Energy Companies in which we intend to invest, the dependence of our future success on the general economy and its impact on the industries in which we invest and other factors discussed in our periodic filings with the SEC.

Although we believe that the expectations reflected in our forward-looking statements are reasonable, we do not know whether our expectations will prove correct. They can be affected by inaccurate assumptions we might make or by known or unknown risks and uncertainties. The factors identified above are believed to be important factors, but not necessarily all of the important factors, that could cause our actual results to differ materially from those expressed in any forward-looking statement. Unpredictable or unknown factors could also have material adverse effects on us. Since our actual results, performance or achievements could differ materially from those expressed in, or implied by, these forward-looking statements, we cannot give any assurance that any of the events anticipated by the forward-looking statements will occur or, if any of them do, what impact they will have on our results of operations and financial condition. All forward-looking statements included in this prospectus supplement, the accompanying prospectus or the SAI are expressly qualified in their entirety by the foregoing cautionary statements. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of such documents. We do not undertake any obligation to update, amend or clarify these forward-looking statements or the risk factors contained therein, whether as a result of new information, future events or otherwise, except as may be required under the federal securities laws. We acknowledge that, notwithstanding the foregoing statements, the Private Securities Litigation Reform Act of 1995 does not apply to investment companies such as us.

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PROSPECTUS SUPPLEMENT SUMMARY

This summary does not contain all of the information you should consider before investing in our common stock. You should read carefully the entire prospectus supplement, the accompanying prospectus, including the section entitled Risk Factors and the financial statements and related notes, before making an investment decision.

THE COMPANY

Kayne Anderson MLP Investment Company, a Maryland corporation, is a non-diversified, closed-end management investment company registered under the Investment Company Act of 1940, as amended (the 1940 Act). Our investment objective is to obtain a high after-tax total return by investing at least 85% of our total assets in MLPs and other Midstream Energy Companies. We also must comply with the SEC s rule regarding investment company names, which requires us, under normal market conditions, to invest at least 80% of our total assets in MLPs so long as MLP is in our name. Our shares of common stock are listed on the New York Stock Exchange (NYSE) under the symbol KYN.

We began investment activities in September 2004 following our initial public offering. As of June 30, 2013, we had net assets applicable to our common stock of approximately \$3.2 billion and total assets of approximately \$5.8 billion.

PORTFOLIO INVESTMENTS

Our investments are principally in equity securities issued by MLPs. Generally, we invest in equity securities of (i) master limited partnerships, including preferred, common and subordinated units and general partner interests, (ii) owners of such interests in master limited partnerships and (iii) other Midstream Energy Companies. We may also invest in debt securities of MLPs and other Midstream Energy Companies with varying maturities of up to 30 years.

We are permitted to invest up to 50% of our total assets in unregistered or otherwise restricted securities of MLPs and other Midstream Energy Companies, including securities issued by private companies. We may invest up to 15% of our total assets in any single issuer.

We are permitted to invest up to 20% of our total assets in debt securities of MLPs and other Midstream Energy Companies, including below investment grade debt securities (commonly referred to as junk bonds or high yield bonds) rated, at the time of investment, at least B3 by Moody's Investors Service, Inc., B- by Standard & Poor's Financial Services LLC, a division of the McGraw-Hill Companies, Inc., or Fitch Ratings, Inc., comparably rated by another rating agency or, if unrated, determined by Kayne Anderson to be of comparable quality. In addition, up to one-quarter of our permitted investments in debt securities (or up to 5% of our total assets) may be invested in unrated debt securities or debt securities that are rated less than B3/B- of public or private companies.

As of June 30, 2013, we held \$5.7 billion in equity investments and \$4.1 million in fixed income investments. Our top 10 largest holdings by issuer as of that date were:

				Percent of
		Units		Long-Term
			Amount	
	Company	(in thousands)	(\$ millions)	Investments
1.	Enterprise Products Partners L.P.	8,489	\$ 527.6	9.2%
2.	Plains All American Pipeline, L.P.	6,852	382.4	6.7
3.	Kinder Morgan Management, LLC	4,447	371.7	6.5
4.	MarkWest Energy Partners, L.P.	5,214	348.6	6.1
5.	Williams Partners L.P.	5,474	282.5	4.9
6.	Regency Energy Partners LP	8,640	233.0	4.1
7.	Energy Transfer Equity, L.P.	4,294	217.0	3.8
8.	DCP Midstream Partners, LP	3,983	215.5	3.8
9.	ONEOK Partners, L.P.	4,110	203.5	3.6
10.	Enbridge Energy Partners, L.P.	5,925	180.7	3.2

INVESTMENT ADVISER

KAFA is a subsidiary of Kayne Anderson Capital Advisors, L.P. (KACALP and together with KAFA, Kayne Anderson). Both KAFA and KACALP are SEC-registered investment advisers. As of May 31, 2013, Kayne Anderson and its affiliates managed approximately \$22 billion, including approximately \$14 billion in MLPs and other Midstream Energy Companies. Kayne Anderson has invested in MLPs and other Midstream Energy Companies since 1998. We believe that Kayne Anderson has developed an understanding of the MLP market that enables it to identify and take advantage of public MLP investment opportunities. In addition, Kayne Anderson s senior professionals have developed a strong reputation in the energy sector and have many long-term relationships with industry managers, which we believe gives Kayne Anderson an important advantage in sourcing and structuring private investments.

DISTRIBUTIONS

We have paid distributions to our common stockholders every fiscal quarter since inception and intend to continue to pay quarterly distributions to our common stockholders. Our quarterly distribution per share has increased by 55% since inception and we have increased our distribution in each of the last eleven quarters. Our most recent quarterly distribution of \$0.58 per share, which will be paid to common stockholders on July 12, 2013 is 10.0% higher than the corresponding distribution paid in July 2012. Investors in this offering will not receive a distribution on July 12, 2013. Our next regularly scheduled quarterly distribution will be for our fiscal quarter ended August 31, 2013 and, if approved by our Board of Directors, will be paid to common stockholders on or about October 15, 2013. Payment of future distributions is subject to approval by our Board of Directors, as well as meeting the covenants of our senior debt, meeting the terms of our preferred stock and the asset coverage requirements of the 1940 Act and complying with Maryland law, our state of incorporation. The distributions we have paid or declared since the beginning of fiscal 2011 are as follows:

July 12, 2013 \$ 0.5800 April 12, 2013 0.5650 January 11, 2013 0.5500 October 12, 2012 0.5375 July 13, 2012 0.5275
January 11, 2013 0.5500 October 12, 2012 0.5375
October 12, 2012 0.5375
July 13, 2012 0.5275
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April 13, 2012 0.5175
January 13, 2012 0.5100
October 14, 2011 0.5025
July 15, 2011 0.4975
April 15, 2011 0.4900
January 14, 2011 0.4850

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THE OFFERING

Common stock we are offering

6,200,000 shares

Common stock to be outstanding after this

offering

99,538,082 shares(1)

Use of proceeds after expenses

We estimate that our net proceeds from this offering after expenses without exercise of the over-allotment option will be approximately \$214 million. We intend to use the net proceeds to make investments in portfolio companies in accordance with our investment objective and

policies and for general corporate purposes. See Use of Proceeds.

Risk factors See Risk Factors and other information included in the accompanying prospectus for a

discussion of factors you should carefully consider before deciding to invest in shares of our

common stock.

NYSE Symbol

KYN

option is exercised in full, the number of shares outstanding will increase by 930,000 shares.

The stockholder transaction expenses can be summarized as follows:

Underwriting discounts and commissions (as a percentage of offering price) Net offering expenses borne by us (as a percentage of offering price) Dividend reinvestment plan fees(2) 3.89% 0.09%

0.09% None

(1) The number of shares outstanding after the offering assumes the underwriters over-allotment option is not exercised. If the over-allotment

(2) You will pay brokerage charges if you direct American Stock Transfer & Trust Company, as agent for our common stockholders, to sell your common stock held in a dividend reinvestment account.

Example

This example replaces the example set forth on page 11 of the accompanying prospectus under the caption Fees and Expenses with respect to this offering.

The following example illustrates the expenses that common stockholders would pay on a \$1,000 investment in common stock assuming (1) underwriting discounts and commissions of 3.89% and offering expenses of 0.09% of the offering price; (2) total annual expenses before tax of 5.0% of net assets attributable to shares of common stock; (3) a 5% annual return on our portfolio securities, and income tax expense associated with the 5% assumed rate of return on such portfolio securities:

	1 Year	3 Years	5 Years	10 Years
Total Expenses Paid by Common Stockholders(1)	\$ 70	\$ 209	\$ 354	\$ 747

(1) The underwriting discounts, commissions and offering expenses are borne by all common stockholders, including investors in this offering. Investors in this offering would pay \$2 of underwriting discounts, commissions and offering expenses on a \$1,000 investment in common stock.

The example should not be considered a representation of future expenses. Actual expenses may be greater or less than those assumed. Moreover, our actual rate of return may be greater or less than the hypothetical 5% return shown in the example.

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USE OF PROCEEDS

We estimate that the net proceeds from the sale of the 6,200,000 shares of common stock that we are offering will be approximately \$214 million, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, or approximately \$246 million if the underwriters exercise the over-allotment option in full.

We intend to use the net proceeds of the offering to make investments in portfolio companies in accordance with our investment objective and policies and for general corporate purposes. We anticipate that we will be able to invest the net proceeds within two to three months.

Pending such investments, we anticipate (i) repaying all or a portion of the indebtedness owed under our existing unsecured revolving credit facility and (ii) investing the remaining net proceeds in short-term securities issued by the U.S. government or its agencies or instrumentalities or in high quality, short-term or long-term debt obligations or money market instruments. A delay in the anticipated use of proceeds could lower returns, reduce our distribution to common stockholders and reduce the amount of cash available to make dividend and interest payments on preferred stock and debt securities, respectively.

At June 30, 2013, we had outstanding borrowings on the revolving credit facility of \$112 million and the interest rate was 1.82%. Any borrowings under our revolving credit facility will be used to fund investments in portfolio companies and for general corporate purposes. Amounts repaid under our revolving credit facility will remain available for future borrowings. Affiliates of some of the underwriters are lenders under our revolving credit facility and will receive a pro rata portion of the net proceeds from this offering, if any, used to reduce amounts outstanding under our revolving credit facility. See Underwriting Affiliations Conflicts of Interests.

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CAPITALIZATION

The following table sets forth our capitalization: (i) as of February 28, 2013, (ii) as adjusted to give effect to the issuance of 4,543,995 shares of common stock on March 12, 2013, the issuance of Series F MRPS Shares with liquidation preference of \$125 million issued on April 3, 2013, the redemption of the 4,000,000 shares of Series D MRP Shares and Senior Notes closed on April 16, 2013 (\$110 million) and on June 13, 2013 (\$125 million), respectively, and (iii) pro forma as adjusted to reflect the issuance of shares offered hereby. As indicated below, common stockholders will bear the offering costs associated with this offering.

Profess Prof		As of February 28, 2013 (Unaudited)		013
Repurchuse Agreements, Cash and Cash Equivalents Sp. 772 \$254,907 \$479,227(1) Short-Term Debt: Revolving Credit Facility Company Com				As Adjusted
Short Term Debt:	Repurchase Agreements Cash and Cash Equivalents			
Revolving Credit Facility	·	Ψ),112	Ψ204,707	φ+17,221(1)
Long-Term Debt: (2) Senior Notes Serics K (2) (3) 125,000 60,000 60,000 50,000		21.000		(1)
Senior Notes Series M (3)	•			(-)
Senior Notes Series M (3)		125,000		
Senior Notes Series O (3) 50,000			60,000	60.000
Senior Notes Series P (3)			50,000	
Senior Notes Series R (3) 15,000 15,000 25,000		·	·	
Senior Notes Series R (3) 25,000 25,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 70,000 100,000 15,000 <td>Senior Notes Series P (3)</td> <td>45,000</td> <td>45,000</td> <td>45,000</td>	Senior Notes Series P (3)	45,000	45,000	45,000
Senior Notes Series R (3) 25,000 25,000 60,000 Senior Notes Series S (3) 60,000 60,000 60,000 Senior Notes Series T (3) 40,000 40,000 40,000 Senior Notes Series U (3) 60,000 60,000 60,000 Senior Notes Series W (3) 100,000 100,000 100,000 Senior Notes Series X (3) 14,000 14,000 14,000 Senior Notes Series X (3) 20,000 20,000 20,000 Senior Notes Series X (3) 15,000 15,000 15,000 Senior Notes Series AA (3) 15,000 15,000 15,000 Senior Notes Series BB (3) 35,000 35,000 35,000 Senior Notes Series DD (2) (3) 76,000 76,000 76,000 Senior Notes Series EF F (2) (3) 50,000 50,000 Senior Notes Series EF F (2) (3) 50,000 50,000 Senior Notes Series EF F (2) (3) 50,000 50,000 Senior Notes Series EF F (2) (3) 50,000 50,000 Senior Notes Series F F (2) (3) 50,000 <t< td=""><td>Senior Notes Series Q (3)</td><td>15,000</td><td>15,000</td><td>15,000</td></t<>	Senior Notes Series Q (3)	15,000	15,000	15,000
Senior Notes Series S (3) 60,000 60,000 40,000 Senior Notes Series T (3) 40,000 40,000 40,000 Senior Notes Series U (3) 70,000 70,000 70,000 Senior Notes Series W (3) 100,000 100,000 100,000 Senior Notes Series X (3) 14,000 14,000 14,000 Senior Notes Series Z (3) 15,000 15,000 15,000 Senior Notes Series B B (3) 35,000 15,000 15,000 Senior Notes Series B B (3) 35,000 35,000 35,000 Senior Notes Series B D (2) (3) 76,000 76,000 76,000 Senior Notes Series B E (2) (3) 50,000 50,000 50,000 Senior Notes Series B E (2) (3) 50,000 50,000 50,000 Senior Notes Series B E (2) (3) 50,000 50,000 50,000 Senior Notes Series G G (2) (3) 50,000 50,000 50,000 Senior Notes Series G G (2) (3) 50,000 50,000 50,000 Senior Notes Series G G (2) (3) 50,000 50,000 50,000<		25,000	25,000	25,000
Senior Notes Series V (3)	Senior Notes Series S (3)	60,000	60,000	
Senior Notes Series W (3)	Senior Notes Series T (3)	40,000	40,000	40,000
Senior Notes Series W (3)	Senior Notes Series U (3)	60,000	60,000	60,000
Senior Notes Series X (3)	Senior Notes Series V (3)	70,000	70,000	70,000
Senior Notes Series Y (3)	Senior Notes Series W (3)	100,000	100,000	100,000
Senior Notes Series Z (3)	Senior Notes Series X (3)	14,000	14,000	14,000
Senior Notes Series AA (3) 15,000 15,000 35,000 35,000 35,000 35,000 35,000 35,000 35,000 36,000	Senior Notes Series Y (3)	20,000	20,000	20,000
Senior Notes Series BB (3) 35,000 35,000 35,000 35,000 26,000	Senior Notes Series Z (3)	15,000	15,000	15,000
Senior Notes Series CC (3)	Senior Notes Series AA (3)	15,000	15,000	15,000
Senior Notes Series CC (3)	Senior Notes Series BB (3)	35,000	35,000	35,000
Senior Notes Series EE (2) (3) 50,000 50,000 Senior Notes Series FF (2) (3) 65,000 65,000 Senior Notes Series GG (2) (3) 45,000 45,000 45,000 Senior Notes Series GG (2) (3) 45,000 45,000 Senior Notes Series GG (2) (3) 45,000 Senior Notes Series GG (2) (3) 50,000 50,000 50,000 Senior Notes Series GG (2) (3) 50,000 50,000 Senior Notes Series GG (2) (3) 50,000 Senior Notes Series GG (2) (3) 50,000 50,000 50,000 Senior Notes Series GG (2) (3) 50,000 50,000 Senior Notes Series GG (2) (3) 50,000 Senior	Senior Notes Series CC (3)	76,000	76,000	
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Senior Notes Series GG (2) (3)	Senior Notes Series EE (2) (3)			50,000
Total Long-Term Debt: \$890,000 \$1,000,000 \$1	Senior Notes Series FF (2) (3)		65,000	65,000
Mandatory Redeemable Preferred Stock: Series A MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,160,000 shares issued and outstanding, 4,160,000 shares authorized) (3) \$104,000 \$104,000 Series B MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (320,000 shares issued and outstanding, 320,000 shares authorized) (3) \$8,000 \$8,000 \$8,000 Series C MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (1,680,000 shares issued and outstanding, 1,680,000 shares authorized) (3) \$42,000 \$42,000 \$42,000 Series D MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,000,000 shares issued and outstanding, 4,000,000 shares authorized, actual; no shares issued and outstanding, adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized, as adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized) (3) \$120,000 \$120,	Senior Notes Series GG (2) (3)		45,000	45,000
Mandatory Redeemable Preferred Stock: Series A MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,160,000 shares issued and outstanding, 4,160,000 shares authorized) (3) \$104,000 \$104,000 Series B MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (320,000 shares issued and outstanding, 320,000 shares authorized) (3) \$8,000 \$8,000 \$8,000 Series C MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (1,680,000 shares issued and outstanding, 1,680,000 shares authorized) (3) \$42,000 \$42,000 \$42,000 Series D MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,000,000 shares issued and outstanding, 4,000,000 shares authorized, actual; no shares issued and outstanding, adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized, as adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized) (3) \$120,000 \$120,				
Mandatory Redeemable Preferred Stock: Series A MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,160,000 shares issued and outstanding, 4,160,000 shares authorized) (3) \$104,000 \$104,000 Series B MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (320,000 shares issued and outstanding, 320,000 shares authorized) (3) \$8,000 \$8,000 \$8,000 Series C MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (1,680,000 shares issued and outstanding, 1,680,000 shares authorized) (3) \$42,000 \$42,000 \$42,000 Series D MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,000,000 shares issued and outstanding, 4,000,000 shares authorized, actual; no shares issued and outstanding, adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized, as adjusted) (3) (4) Series E MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,800,000 shares authorized) (3) \$120,000 \$120,	Total Long-Term Debt	\$890,000	\$1,000,000	\$1,000,000
Series A MRP Shares, \$0.001 par value per share, liquidation preference \$25.00 per share (4,160,000 shares issued and outstanding, 4,160,000 shares authorized) (3) \$104,000 \$	<u> </u>	ψ020,000	φ1,000,000	ψ1,000,000
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\mathcal{S}_1		\$89	\$93	\$99
			11.1	11.

Accumulated net investment loss, net of income taxes, less dividends	(558,875)	(558,875)	(558,875)
Accumulated realized gains on investments, options, and interest rate swap contracts, net of income taxes	318,279	318,279	318,279
Net unrealized gains on investments and options, net of income taxes	1,285,505	1,285,505	1,285,505
Net assets applicable to common stockholders	\$2,740,231	\$2,885,711	\$3,100,031

- (1) We intend to use the net proceeds from this offering to make investments in portfolio companies in accordance with our investment objective and policies, to repay indebtedness or for general corporate purposes. Pending such uses, we anticipate either investing the proceeds in short-term securities issued by the U.S. government or its agencies or instrumentalities or in high quality, short-term or long-term debt obligations, money market instruments or cash.
- (2) On April 16, 2013, we executed a definitive agreement for the private placement of \$235,000 of Senior Notes. In conjunction with execution of this agreement, on April 16, 2013, we received funding of \$110,000 of the \$235,000 total offering amount. The remaining \$125,000 was funded on June 13, 2013 and the proceeds were used to redeem the \$125,000 of Series K Senior Notes which matured on June 19, 2013.
- (3) We do not hold any of these outstanding securities for our account.
- (4) On April 3, 2013, we completed a public offering of 5,000,000 shares of Series F MRP Shares at a price of \$25.00 per share. Net proceeds from the offering were approximately \$122,300 and were used primarily to redeem all 4,000,000 shares of Series D MRP Shares.
- (5) On March 12, 2013, we completed a public offering of 4,543,995 shares of common stock at a price of \$33.36 per share. Net proceeds were used to make additional portfolio investments, to repay indebtedness and for general corporate purposes.
- (6) On April 5, 2013, we issued 172,401 shares of common stock pursuant to our dividend reinvestment plan which are not reflected in the as adjusted or proforma as adjusted shares issued and outstanding.
- (7) As adjusted, additional paid-in capital reflects the issuance of shares of common stock offering net of underwriting discounts and offering costs (\$145,476), less \$0.001 par value per share of common stock (\$4).
- (8) Proforma as adjusted, additional paid-in capital reflects the proceeds from the issuance of shares of common stock offered hereby (\$223,200), less \$0.001 par value per share of common stock (\$6), less the sales commission (\$8,680) and less the estimated offering costs borne by us (\$200) related to the issuance of shares of common stock in this offering.

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Total

UNDERWRITING

We are offering the shares of our common stock described in this prospectus supplement through the underwriters named below. Morgan Stanley & Co. LLC, Merrill Lynch, Pierce, Fenner & Smith Incorporated, Citigroup Global Markets Inc. and UBS Securities LLC are the joint book-running managers of the offering and representatives of the underwriters. We have entered into an underwriting agreement with the representatives. Subject to the terms and conditions of the underwriting agreement, each of the underwriters has severally agreed to purchase the number of shares of common stock listed next to its name in the following table.

Underwriters	Number of Shares
Morgan Stanley & Co. LLC	2,160,253
Merrill Lynch, Pierce, Fenner & Smith	,,
Incorporated	1,127,371
Citigroup Global Markets Inc.	977,055
UBS Securities LLC	939,476
Robert W. Baird & Co. Incorporated	187,895
Barclays Capital Inc.	112,737
Deutsche Bank Securities Inc.	244,264
RBC Capital Markets, LLC	244,264
Stifel, Nicolaus & Company, Incorporated	206,685

The underwriting agreement provides that the obligations of the underwriters to purchase the shares included in this offering are subject to approval of legal matters by counsel and to other conditions. The underwriting agreement provides that the underwriters must buy all of the shares if they buy any of them. However, the underwriters are not required to take or pay for the shares covered by the underwriters over-allotment option described below.

6,200,000

Our common stock is offered subject to a number of conditions, including:

receipt and acceptance of our common stock by the underwriters; and

the underwriters right to reject orders in whole or in part.

In connection with this offering, certain of the underwriters or securities dealers may distribute prospectuses electronically.

OVER-ALLOTMENT OPTION

We have granted the underwriters an option to buy up to an aggregate of 930,000 additional shares of common stock. The underwriters may exercise this option solely for the purpose of covering over-allotments, if any, made in connection with this offering. The underwriters have 45 days from the date of this prospectus supplement to exercise this option. If the underwriters exercise this option, they will each purchase additional shares approximately in proportion to the amounts specified in the table above.

COMMISSIONS AND DISCOUNTS

Shares sold by the underwriters to the public will be offered at the public offering price set forth on the cover page of this prospectus supplement. Any shares sold by the underwriters to securities dealers may be sold at a discount of up to \$0.84 per share from the public offering price. Sales of shares made outside of the U.S. may be made by affiliates of the underwriters. If all of the shares are not sold at the public offering price, the representatives may change the offering price and the other selling terms. Upon execution of the underwriting agreement, the underwriters will be obligated to purchase the shares at the prices and upon the terms stated therein and, as a result, will thereafter bear any risk associated with changing the offering price to the public and other selling terms. The sales load and underwriting discount is equal to 3.89% of

the initial offering price. Investors must pay for their shares of common stock on or before July 15, 2013.

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The following table shows the per share and total underwriting discounts and commissions we will pay to the underwriters assuming both no exercise and full exercise of the underwriters option to purchase up to an additional 930,000 shares of common stock.

	No Exercise	Full Exercise
Per share	\$ 1.40	\$ 1.40
Total	\$ 8.680.000	\$ 9.982.000

We estimate that the total expenses of this offering payable by us, not including the underwriting discounts and commissions, will be approximately \$200,000.

NO SALES OF SIMILAR SECURITIES

We, our Adviser and certain officers of our Adviser, including all of our officers, and our directors who own shares of our common stock and/or purchase shares of our common stock in this offering, have entered into lock-up agreements with the underwriters. Under these agreements, subject to certain exceptions, we and each of these persons may not, without the prior written consent of the representatives, offer, sell, contract to sell or otherwise dispose of, directly or indirectly, or hedge our common stock or securities convertible into or exchangeable or exercisable for our common stock for a period of 60 days after the date of this prospectus supplement, provided, however, that (i) the Company may issue and sell shares of common stock pursuant to the Company s dividend reinvestment plan and (ii) after the initial 30-day period from the date of this prospectus supplement, the Company shall be permitted to sell shares of its common stock pursuant to its at-the-market offering program. In the event that either (x) during the last 17 days of the 60-day period referred to above, we issue an earnings release or (y) prior to the expiration of such 60 days, we announce that we will release earnings during the 16-day period beginning on the last day of such 60-day period, the restrictions described above shall continue to apply until the expiration of the 18-day period beginning on the date of the earnings or the press release.

We have agreed to indemnify the underwriters against certain liabilities, including certain liabilities under the Securities Act of 1933, as amended (the Securities Act). If we are unable to provide this indemnification, we have agreed to contribute to payments the underwriters may be required to make in respect of those liabilities.

NYSE LISTING

Our currently outstanding shares of common stock are, and the shares of common stock sold pursuant to this prospectus supplement and the accompanying prospectus, subject to notice of issuance, will be, listed on the NYSE under the symbol KYN.

PRICE STABILIZATION, SHORT POSITIONS

In connection with this offering, the underwriters may engage in activities that stabilize, maintain or otherwise affect the price of our common stock, including:

stabilizing transactions;
short sales;
purchases to cover positions created by short sales;
imposition of penalty bids; and
syndicate covering transactions

Stabilizing transactions consist of bids or purchases made for the purpose of preventing or retarding a decline in the market price of our common stock while this offering is in progress. These transactions may also include making short sales of our common stock which involve the sale by the underwriters of a greater number of shares of common stock than they are required to purchase in this offering.

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Short sales may be covered short sales, which are short positions in an amount not greater than the underwriters over-allotment option referred to above, or may be naked short sales, which are short positions in excess of that amount.

The underwriters may close out any covered short position by either exercising their over-allotment option, in whole or in part, or by purchasing shares in the open market. In making this determination, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the over-allotment option.

The underwriters may close out any naked short sale position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market that could adversely affect investors who purchased in this offering.

The underwriters may also impose a penalty bid. This occurs when a particular underwriter repays to the underwriters a portion of the underwriting discounts and commissions received by it because the representatives have repurchased shares sold by or for the account of that underwriter in stabilizing or short covering transactions.

As a result of these activities, the price of our common stock may be higher than the price that otherwise might exist in the open market. If these activities are commenced, they may be discontinued by the underwriters at any time. The underwriters may carry out these transactions on the NYSE or in the over-the-counter market, or otherwise.

Neither we nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of the common stock. In addition, neither we nor any of the underwriters make any representation that the underwriters will engage in these stabilizing transactions or that any transaction, if commenced, will not be discontinued without notice.

NOTICE TO PROSPECTIVE INVESTORS IN THE EUROPEAN ECONOMIC AREA

In relation to each member state of the European Economic Area (the EEA) that has implemented the Prospectus Directive (each, a relevant member state), with effect from and including the date on which the Prospectus Directive is implemented in that relevant member state (the relevant implementation date), an offer of shares described in this prospectus supplement has not been made and may not be made to the public in that relevant member state other than:

to any legal entity which is a qualified investor as defined in the Prospectus Directive;

to fewer than 150 natural or legal persons (other than qualified investors as defined in the Prospectus Directive), as permitted under the Prospectus Directive, subject to obtaining the prior consent of the relevant Dealer or Dealers nominated by us for any such offer; or

in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of shares shall require us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Directive.

For purposes of this provision, the expression an offer of securities to the public in any relevant member state means the communication in any form and by any means of sufficient information on the terms of the offer and the securities to be offered so as to enable an investor to decide to purchase or subscribe for the securities, as the expression may be varied in that member state by any measure implementing the Prospectus Directive in that member state, and the expression Prospectus Directive means Directive 2003/71/EC (and amendments thereto, including the 2010 PD Amending Directive) and includes any relevant implementing measure in the relevant member state. The expression 2010 PD Amending Directive means Directive 2010/73/EU.

This prospectus supplement is not a prospectus for the purposes of the Prospectus Directive as implemented in the member states of the EEA. This prospectus supplement has been prepared on the basis that all offers of the shares will be made pursuant to an exemption under the Prospectus Directive from the requirement to produce a prospectus in connection with offers of the shares. Accordingly, any person making or intending to make any offer within the EEA of shares which are the subject of the offering contemplated in this prospectus supplement should only do so in circumstances in which no obligation arises for us or any of the underwriters to produce a prospectus for such offers. Neither we nor the underwriters have authorized, nor do we or they authorise, the making of any offer of the shares through any financial intermediary, other than offers made by underwriters which constitute the final placement of the shares contemplated in this prospectus supplement.

NOTICE TO PROSPECTIVE INVESTORS IN THE UNITED KINGDOM

This prospectus supplement and the accompanying prospectus (this Communication) has not been approved by an authorized person under section 21 of the Financial Services and Markets Act 2000 and is only being distributed to, and is only directed at, persons in the United Kingdom that are qualified investors within the meaning of Article 2(1)(e) of the Prospectus Directive that are also (i) investment professionals falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (the Order) or (ii) high net worth entities, and other persons to whom it may lawfully be communicated, falling within Article 49(2)(a) to (d) of the Order (each such person being referred to as a relevant person).

This Communication and its contents are confidential and provided on a personal basis to the recipients and should not be distributed, published or reproduced (in whole or in part) or disclosed by recipients to any other persons in the United Kingdom. Any investment or investment activity to which this Communication relates is available only to relevant persons and will only be engaged with relevant persons. Any person in the United Kingdom that is not a relevant person should not act or rely on this Communication or any of its contents.

AFFILIATIONS CONFLICTS OF INTERESTS

Some of the underwriters and their affiliates may from time to time in the future engage in transactions with us and perform services for us in the ordinary course of their business.

In addition, in the ordinary course of their business activities, the underwriters and their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers. Such investments and securities activities may involve securities and/or instruments of ours or our affiliates. The underwriters and their affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or financial instruments and may hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Affiliates of some of the underwriters are lenders under our revolving credit facility and will receive a pro rata portion of the net proceeds from this offering, if any, used to reduce amounts outstanding thereunder. See Use of Proceeds.

The respective addresses of the representatives are Morgan Stanley & Co. LLC, 1585 Broadway, New York, New York 10036; Merrill Lynch, Pierce, Fenner & Smith Incorporated, One Bryant Park, New York, New York 10036; Citigroup Global Markets Inc., 388 Greenwich Street, New York, New York, New York 10013; and UBS Securities LLC, 299 Park Avenue, New York, NY 10171.

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LEGAL MATTERS

Certain legal matters in connection with our common stock will be passed upon for us by Paul Hastings LLP, Costa Mesa, California, and for the underwriters by Sidley Austin LLP, New York, New York. Paul Hastings LLP and Sidley Austin LLP may rely as to certain matters of Maryland law on the opinion of Venable LLP, Baltimore, Maryland.

WHERE YOU CAN FIND MORE INFORMATION

We are subject to the informational requirements of the Securities Exchange Act of 1934, as amended (the Exchange Act) and the 1940 Act, and are required to file reports, including annual and semi-annual reports, proxy statements and other information with the SEC. We voluntarily file quarterly shareholder reports. Our most recent shareholder report filed with the SEC is for the year ended November 30, 2012. These documents are available on the SEC s EDGAR system and can be inspected and copied for a fee at the SEC s public reference room, 100 F Street, N.E., Room 1580, Washington, D.C. 20549. Additional information about the operation of the public reference room facilities may be obtained by calling the SEC at (202) 551-5850.

This prospectus supplement and the accompanying prospectus do not contain all of the information in our registration statement, including amendments, exhibits and schedules. Statements in this prospectus supplement and the accompanying prospectus about the contents of any contract or other document are not necessarily complete and in each instance reference is made to the copy of the contract or other document filed as an exhibit to the registration statement, each such statement being qualified in all respects by this reference. Additional information about us can be found in our registration statement (including amendments, exhibits, and schedules) on Form N-2 filed with the SEC. The SEC maintains a web site (http://www.sec.gov) that contains our registration statement, other documents incorporated by reference, and other information we have filed electronically with the SEC, including proxy statements and reports filed under the Exchange Act.

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UNAUDITED FINANCIAL STATEMENTS AS OF AND FOR THE THREE MONTHS ENDED FEBRUARY 28, 2013 AND FINANCIAL HIGHLIGHTS FOR THE PERIOD SEPTEMBER 28, 2004

THROUGH NOVEMBER 30, 2004 AND FOR THE FISCAL YEARS ENDED

NOVEMBER 30, 2005 THROUGH 2012 AND FOR THE THREE MONTHS ENDED

FEBRUARY 28, 2013

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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS: This report of Kayne Anderson MLP Investment Company (the Company) 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 his in nature. Forward-looking statements are subject to certain risks and uncertainties that could cause actual results to materially 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; master limited partnership industry risk; leverage risk; valuation risk; interest rate risk; tax risk; and other risks discussed in the Company s filings with the Securities and Exchange Commission (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 update or revise any forward-looking statements made herein. There is no assurance that the Company s investment objectives will be attained.

KAYNE ANDERSON MLP INVESTMENT COMPANY

MANAGEMENT DISCUSSION

(UNAUDITED)

Company Overview

Kayne Anderson MLP Investment Company is a non-diversified, closed-end fund that commenced operations in September 2004. Our investment objective is to obtain a high after-tax total return by investing at least 85% of our total assets in energy-related master limited partnerships and their affiliates (MLPs) and in other companies that operate assets used in the gathering, transporting, processing, storing, refining, distributing, mining or marketing of natural gas, natural gas liquids, crude oil, refined petroleum products or coal (collectively with MLPs, Midstream Energy Companies).

As of February 28, 2013, we had total assets of \$4.9 billion, net assets applicable to our common stock of \$2.7 billion (net asset value per share of \$30.92), and 88.6 million shares of common stock outstanding.

Our investments are principally in equity securities issued by MLPs, but we also may invest in debt securities of MLPs and debt/equity securities of Midstream Energy Companies. As of February 28, 2013, we held \$4.9 billion in equity investments and no debt investments.

Recent Events

On March 5, 2013, we entered into a new unsecured revolving credit facility (the Credit Facility) with a syndicate of lenders. The new Credit Facility has a three-year term maturing on March 4, 2016 and a total commitment amount of \$250.0 million, an increase of \$50.0 million from the prior Credit Facility. The interest rate varies between LIBOR plus 1.60% and LIBOR plus 2.25%, depending on our asset coverage ratios. Outstanding loan balances accrue interest daily at a rate equal to one-month LIBOR plus 1.60% based on current asset coverage ratios. We pay a fee of 0.30% per annum on any unused amounts of the Credit Facility.

On March 12, 2013, we completed a public offering of 4,543,995 shares of common stock at a price of \$33.36 per share. The net proceeds of \$145.5 million were used to make additional portfolio investments, repay indebtedness and for general corporate purposes.

On April 3, 2013, we completed a public offering of 5,000,000 shares of Series F mandatory redeemable preferred stock (Series F MRP Shares) at a price of \$25.00 per share. The Series F MRP Shares pay cash dividends at a rate of 3.50% per annum. Net proceeds from the offering were \$122.5 million. The net proceeds from this offering were used to redeem all 4,000,000 shares of our Series D mandatory redeemable preferred stock (Series D MRP Shares) with a \$100.0 million liquidation preference, to make additional portfolio investments, to repay indebtedness, and for general corporate purposes.

On April 16, 2013, we executed a definitive agreement for the private placement of \$235.0 million of senior unsecured notes (Senior Notes). In conjunction with execution of this agreement, on April 16, 2013, we received funding of \$110.0 million (the April Funding) of the \$235.0 million total offering amount. The remaining \$125.0 million is expected to be funded in June 2013 (the June Funding). Proceeds from the April Funding will be used to make new portfolio investments and to repay indebtedness, and proceeds from the June Funding will be used to refinance \$125.0 million principal amount of the Series K Senior Notes, which mature on June 19, 2013.

The table below sets forth the timing and key terms of the Senior Notes:

	April	June	Total		
	Funding	Funding	Amount		
Series	(in millions)	(in millions)	(in millions)	Interest Rate	Maturity
DD	\$ 35.0	\$ 40.0	\$ 75.0	2.74%	4/16/19

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EE	24.0	26.0	50.0	3.20%	4/16/21
FF	30.0	35.0	65.0	3.57%	4/16/23
GG	21.0	24.0	45.0	3.67%	4/16/25
	\$ 110.0	\$ 125.0	\$ 235.0		

KAYNE ANDERSON MLP INVESTMENT COMPANY

MANAGEMENT DISCUSSION

(UNAUDITED)

Our Top Ten Portfolio Investments as of February 28, 2013

Listed below are our top ten portfolio investments by issuer as of February 28, 2013.

Holding	Sector	Amount (\$millions)	Percent of Long-Term Investments
1. Enterprise Products Partners L.P.	Midstream MLP	\$ 434.9	9.0%
2. Plains All American Pipeline, L.P.	Midstream MLP	375.1	7.7
3. Kinder Morgan Management, LLC	Midstream MLP	356.7	7.3
4. MarkWest Energy Partners, L.P.	Midstream MLP	283.6	5.8
5. El Paso Pipeline Partners, L.P.	Midstream MLP	207.6	4.3
6. Energy Transfer Equity, L.P.	General Partner MLP	206.9	4.3
7. Williams Partners L.P.	Midstream MLP	203.5	4.2
8. Regency Energy Pertners LP	Midstream MLP	185.8	3.8
9. ONEOK Partners, L.P.	Midstream MLP	161.8	3.3
10. Enbridge Energy Partners, L.P.	Midstream MLP	157.1	3.2
		\$ 2,573.0	52.9%

Results of Operations For the Three Months Ended February 28, 2013

Investment Income. Investment income totaled \$9.0 million for the quarter and consisted primarily of net dividends and distributions and interest income on our investments. We received \$66.6 million of cash dividends and distributions, of which \$56.9 million was treated as return of capital and \$0.7 million were distributions in excess of cost basis. We received \$7.1 million of paid-in-kind dividends during the quarter, which are not included in investment income, but are reflected as an unrealized gain.

Operating Expenses. Operating expenses totaled \$31.0 million, including \$15.7 million of investment management fees, \$9.6 million of interest expense (including non-cash amortization of debt issuance costs of \$0.3 million), and \$0.9 million of other operating expenses. Preferred stock distributions for the quarter were \$4.8 million (including non-cash amortization of \$0.2 million).

Net Investment Loss. Our net investment loss totaled \$15.3 million and included a current and deferred income tax benefit of \$6.7 million.

Net Realized Gains. We had net realized gains from our investments of \$27.7 million, net of \$16.3 million of current and deferred tax expense.

Net Change in Unrealized Gains. We had a net change in unrealized gains of \$249.9 million. The net change consisted of \$396.1 million of unrealized gains from investments, \$0.6 million of unrealized losses from option activity and a deferred tax expense of \$146.8 million.

Net Increase in Net Assets Resulting from Operations. We had an increase in net assets resulting from operations of \$262.3 million. This increase was comprised of a net investment loss of \$15.3 million; net realized gains of \$27.7 million; and net change in unrealized gains of \$249.9 million, as noted above.

Distributions to Common Stockholders

We pay quarterly distributions to our common stockholders, funded generally by net distributable income ($\,$ NDI $\,$) generated from our portfolio investments. NDI is the amount of income received by us from our portfolio investments less operating expenses, subject to certain adjustments as described below. NDI is not a

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KAYNE ANDERSON MLP INVESTMENT COMPANY

MANAGEMENT DISCUSSION

(UNAUDITED)

financial measure under the accounting principles generally accepted in the United States of America (GAAP). Refer to the Reconciliation of NDI to GAAP section below for a reconciliation of this measure to our results reported under GAAP.

Income from portfolio investments includes (a) cash dividends and distributions, (b) paid-in-kind dividends received (*i.e.*, stock dividends), (c) interest income from debt securities and commitment fees from private investments in public equity (PIPE investments) and (d) net premiums received from the sale of covered calls.

Operating expenses include (a) investment management fees paid to our investment adviser, (b) other expenses (mostly comprised of fees paid to other service providers), (c) interest expense and preferred stock distributions and (d) current and deferred income tax expense/benefit on net investment income/loss.

Net Distributable Income (NDI)

(amounts in millions, except for per share amounts)

	Feb	ee Months Ended ruary 28, 2013
Distributions and Other Income from Investments		
Dividends and Distributions	\$	66.6
Paid-In-Kind Dividends		7.1
Net Premiums Received from Call Options Written		1.6
Total Distributions and Other Income from Investments		75.3
Expenses		
Investment Management Fee		(15.7)
Other Expenses		(0.9)
Interest Expense		(9.3)
Preferred Stock Distributions		(4.6)
Income Tax Benefit		6.7
NADYARA II A AND	ф	51.5
Net Distributable Income (NDI)	\$	51.5
Weighted Shares Outstanding		88.5
NDI per Weighted Share Outstanding	\$	0.58
Distributions paid per Common Share ⁽¹⁾	\$	0.565

⁽¹⁾ The distribution of \$0.565 per share for the first quarter of fiscal 2013 was paid to common stockholders on April 12, 2013. Payment of future distributions is subject to Board of Directors approval, as well as meeting the covenants of our debt agreements and terms of our preferred stock. In determining our quarterly distribution to common stockholders, our Board of Directors considers a number of factors that

include, but are not limited to:		

NDI generated in the current quarter;

Expected NDI over the next twelve months; and

Realized and unrealized gains generated by the portfolio.

On March 20, 2013, we declared a quarterly distribution of \$0.565 per common share for the first quarter of fiscal 2013 (a total distribution of \$52.6 million). The distribution represents an increase of 2.7% from the prior quarter s distribution and an increase of 9.2% from the distribution for the quarter ended February 29, 2012. The distribution was paid on April 12, 2013 to common stockholders of record on April 5, 2013.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

MANAGEMENT DISCUSSION

(UNAUDITED)

Reconciliation of NDI to GAAP

The difference between distributions and other income from investments in the NDI calculation and total investment income as reported in our Statement of Operations is reconciled as follows:

GAAP recognizes that a significant portion of the cash distributions received from MLPs is characterized as a return of capital and therefore excluded from investment income, whereas the NDI calculation includes the return of capital portion of such distributions.

NDI includes the value of paid-in-kind dividends, whereas such amounts are not included as investment income for GAAP purposes, but rather are recorded as unrealized gains upon receipt.

NDI includes commitment fees from PIPE investments, whereas such amounts are generally not included in investment income for GAAP purposes, but rather are recorded as a reduction to the cost of the investment.

Many of our investments in debt securities were purchased at a discount or premium to the par value of such security. When making such investments, we consider the security s yield to maturity, which factors in the impact of such discount (or premium). Interest income reported under GAAP includes the non-cash accretion of the discount (or amortization of the premium) based on the effective interest method. When we calculate interest income for purposes of determining NDI, in order to better reflect the yield to maturity, the accretion of the discount (or amortization of the premium) is calculated on a straight-line basis to the earlier of the expected call date or the maturity of the debt security.

We may sell covered call option contracts to generate income or to reduce our ownership of certain securities that we hold. In some cases, we are able to repurchase these call option contracts at a price less than the fee that we received, thereby generating a profit. The amount we receive from selling call options, less (i) the amount that we pay to repurchase such call option contracts and (ii) the amount by which the market price of an underlying security is above the strike price at the time a new call option is written, is included in NDI. For GAAP purposes, premiums received from call option contracts sold is not included in investment income. See Note 2 Significant Accounting Policies for a full discussion of the GAAP treatment of option contracts.

The treatment of expenses included in NDI also differs from what is reported in the Statement of Operations as follows:

The non-cash amortization or write-offs of capitalized debt issuance costs and preferred stock offering costs related to our financings is included in interest expense and distributions on mandatory redeemable preferred stock for GAAP purposes, but is excluded from our calculation of NDI. Interest or dividend premiums paid associated with the redemption of senior unsecured notes or preferred stock are included in interest expense and distributions on mandatory redeemable preferred stock for GAAP purposes, but excluded from our calculation of NDI.

NDI also includes recurring payments (or receipts) on interest rate swap contracts (excluding termination payments) whereas for GAAP purposes, these amounts are included in the realized gains/losses section of the Statement of Operations.

Liquidity and Capital Resources

Total leverage outstanding at February 28, 2013 of \$1,285.0 million was comprised of \$890.0 million of Senior Notes, \$21.0 million outstanding under our Credit Facility and \$374.0 million of mandatory redeemable preferred stock. Total leverage represented 26% of total assets at February 28, 2013. As of April 18, 2013, we had \$125.0 million borrowed under our Credit Facility, and we had \$2.1 million of cash.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

MANAGEMENT DISCUSSION

(UNAUDITED)

On March 5, 2013, we entered into a new Credit Facility with a syndicate of lenders. The new Credit Facility has a three-year commitment maturing on March 4, 2016 and a total commitment amount of \$250.0 million, an increase of \$50.0 million from the prior Credit Facility. The interest rate varies between LIBOR plus 1.60% and LIBOR plus 2.25%, depending on our asset coverage ratios. Outstanding loan balances accrue interest daily at a rate equal to one-month LIBOR plus 1.60% based on current asset coverage ratios. We pay a fee of 0.30% per annum on any unused amounts of the Credit Facility. A full copy of our Credit Facility is available on our website, www.kaynefunds.com.

We had \$890.0 million of Senior Notes outstanding at February 28, 2013. On April 16, 2013, we executed a definitive agreement for the private placement of \$235.0 million of Senior Notes. In conjuction with the execution of this agreement, on April 16, 2013, we received funding of \$110.0 million of the \$235.0 million total offering amount. The remaining \$125.0 million is expected to be funded in June 2013 and will be used to refinance \$125.0 million principal amount of our Series K Senior Notes which mature on June 19, 2013. The remaining Senior Notes mature between 2014 and 2025.

As of February 28, 2013, we had \$374.0 million of mandatory redeemable preferred stock outstanding. On April 3, 2013, we completed a public offering of \$125.0 million of Series F MRP Shares. A portion of the proceeds were used to redeem all of the Series D MRP Shares with a \$100.0 million liquidation preference. The remaining mandatory redeemable preferred stock outstanding is subject to mandatory redemption at various dates from 2017 through 2020.

At February 28, 2013, our asset coverage ratios under the Investment Company Act of 1940, as amended (the 1940 Act), were 442% and 313% for debt and total leverage (debt plus preferred stock), respectively. We currently target an asset coverage ratio with respect to our debt of 375%, but at times may be above or below our target depending on market conditions.

As of February 28, 2013, our total leverage consisted of both fixed rate (86%) and floating rate (14%) obligations. At such date, the weighted average interest or dividend rate on our total leverage was 4.3%.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

SCHEDULE OF INVESTMENTS

FEBRUARY 28, 2013

(amounts in 000 s, except number of option contracts)

(UNAUDITED)

Description	No. of Shares/Units	Value
Long-Term Investments 177.3%		
Equity Investments ⁽¹⁾ 177.3%		
Midstream MLP ⁽²⁾ 140.1%		
Access Midstream Partners, L.P.	2,002	\$ 74,543
Boardwalk Pipeline Partners, LP	853	22,645
Buckeye Partners, L.P. (3)	1,861	103,643
Buckeye Partners, L.P. Class B Unit(\$)(4)(5)	948	50,573
Copano Energy, L.L.C.	1,597	61,566
Crestwood Midstream Partners LP	2,589	64,981
Crestwood Midstream Partners LP Class C Units (15)	1,226	30,567
Crosstex Energy, L.P.	5,758	97,141
DCP Midstream Partners, LP	3,122	126,855
El Paso Pipeline Partners, L.P.	4,968	207,613
Enbridge Energy Management, L.L.C. ⁽⁵⁾	166	4,548
Enbridge Energy Partners, L.P.	5,670	157,110
Energy Transfer Partners, L.P. (6)	1,104	52,889
Enterprise Products Partners L.P.	7,674	434,860
Global Partners LP	2,054	69,312
Inergy, L.P.	4,303	85,894
Inergy Midstream, L.P.	1,476	35,326
Inergy Midstream, L.P. Unregistere®	1,905	44,012
Kinder Morgan Management, LLC ⁽⁵⁾	4,307	356,724
Magellan Midstream Partners, L.P. ⁽⁶⁾	2,769	138,903
MarkWest Energy Partners, L.P. (3)(6)	4,961	283,611
MPLX LP	372	12,174
Niska Gas Storage Partners LLC	1,904	22,492
NuStar Energy L.P. ⁽⁶⁾	974	49,729
ONEOK Partners, L.P.	2,953	161,842
Plains All American Pipeline, L.P. (3)	6,852	375,136
PVR Partners, L.P. (3)	4,849	112,489
Regency Energy Partners LP	7,810	185,795
Summit Midstream Partners, LP	1,131	25,463
Targa Resources Partners L.P.	1,691	69,648
Tesoro Logistics LP	562	28,064
Western Gas Partners, LP	1,604	87,976
Williams Partners L.P.	4,095	203,533
		3,837,657
General Partner MLP 11.4%		
Alliance Holdings GP L.P.	1,885	97,911
Energy Transfer Equity, L.P.	3,891	206,943
Western Gas Equity Partners, LP	250	8,499

313,353

Midstream 8.8%		
Kinder Morgan, Inc.	1,029	38,138
ONEOK, Inc.	1,510	67,913

See accompanying notes to financial statements.

Total Equity Investments (Cost \$2,810,624)

KAYNE ANDERSON MLP INVESTMENT COMPANY

SCHEDULE OF INVESTMENTS

FEBRUARY 28, 2013

(amounts in 000 s, except number of option contracts)

(UNAUDITED)

Description Shares/Units Value Midstream (continued) Plains All American GP LLC Unregistered (14) 24 \$ 65,496		No. of	
Plains All American GP LLC Unregistered (4) 24 \$ 65,496	Description	Shares/Units	Value
T D C	Plains All American GP LLC Unregistered ⁽¹⁾⁽⁴⁾	24	\$ 65,496
rarga kesources Corp. 145 8,845	Targa Resources Corp.	145	8,845
The Williams Companies, Inc. ⁽⁶⁾ 1,766 61,287	The Williams Companies, Inc. (6)	1,766	61,287
241,679			241.679
			_ , , , , ,
Shipping MLP 7.5%	Shipping MLP 7.5%		
Capital Product Partners L.P. 2,841 22,699		2.841	22,699
Golar LNG Partners LP 216 6,440		•	
Navios Maritime Partners L.P. 1,876 25,852			
Teekay LNG Partners L.P. 1,552 60,780			
Teekay Offshore Partners L.P. 3,179 88,992			
	· · · · · · · · · · · · · · · · · · ·		
204,763			204,763
Upstream MLP & Income Trust 4.5%	Upstream MLP & Income Trust 4.5%		
BreitBurn Energy Partners L.P. 2,420 47,076		2,420	47,076
Legacy Reserves L.P. 278 7,330			
Memorial Production Partners LP 339 6,366			
Mid-Con Energy Partners, LP 1,258 27,666	Mid-Con Energy Partners, LP	1,258	27,666
Pacific Coast Oil Trust 578 10,965			10,965
SandRidge Mississippian Trust II 702 9,478	SandRidge Mississippian Trust II	702	9,478
SandRidge Permian Trust 610 9,573	SandRidge Permian Trust	610	9,573
VOC Energy Trust 347 4,521	VOC Energy Trust	347	4,521
122.975			122,975
			,
Other 5.0%	Other 5.0%		
Alliance Resource Partners, L.P. 163 10,143		163	10 143
Clearwater Trust (3)(4)(7) N/A 2,630	Classwater Trust (3)(4)(7)		
Exterran Partners, L.P. 2,903 68,452			
Hi-Crush Partners LP 2,905 08,432			
PetroLogistics LP 893 13,948		•	
SunCoke Energy Partners, L.P. ⁽⁸⁾ 667 13,160			
USA Compression Partners, LP ⁽⁸⁾ 273 5,086			,
5,000	Con Compression I articles, LI	213	3,000
127 500			127 500
137,590			157,390

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No. of Contracts Liabilities Call Option Contracts Written⁽⁹⁾ Midstream MLP Energy Transfer Partners, L.P., call option expiring 3/15/13 @ \$47.50 1,000 (75)Magellan Midstream Partners, L.P., call option expiring 3/15/13 @ \$47.50 (140)500 Magellan Midstream Partners, L.P., call option expiring 3/15/13 @ \$50.00 2,500 (212)MarkWest Energy Partners, L.P., call option expiring 3/15/13 @ \$55.00 1,030 (257) MarkWest Energy Partners, L.P., call option expiring 4/19/13 @ \$55.00 1,030 (330)MarkWest Energy Partners, L.P., call option expiring 4/19/13 @ \$57.50 690 (83) NuStar Energy L.P., call option expiring 3/15/13 @ \$50.00 4,000 (600)(1,697)

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY

SCHEDULE OF INVESTMENTS

FEBRUARY 28, 2013

(amounts in 000 s, except number of option contracts)

(UNAUDITED)

No. of Description Contracts	Value
Midstream	Value
The Williams Companies, Inc, call option expiring 4/19/13 @ \$34.00 500	\$ (63)
The Williams Companies, Inc, call option expiring 4/19/13 @ \$35.00 500	(40)
The Williams Companies, men, can option expiring W17/13 @ \$55.00	(10)
	(103)
Total Call Option Contracts Written (Premiums Received \$1,217)	(1,800)
Credit Facility	(21,000)
Senior Unsecured Notes	(890,000)
Mandatory Redeemable Preferred Stock at Liquidation Value	(374,000)
Current Tax Liability	(573)
Deferred Tax Liability	(809,631)
Other Liabilities	(50,333)
	(= = ,= = - ,
Total Liabilities	(2,147,337)
Other Assets	29,551
	25,001
Total Liabilities in Excess of Other Assets	(2,117,786)
Net Assets Applicable to Common Stockholders	\$ 2,740,231

- (1) Unless otherwise noted, equity investments are common units/common shares.
- (2) Includes limited liability companies.
- (3) The Company believes that it is an affiliate of Buckeye Partners, L.P., Clearwater Trust, MarkWest Energy Partners, L.P., PVR Partners, L.P., Plains All American Pipeline, L.P. and Plains All American GP LLC. See Note 5 Agreements and Affiliations.
- (4) Fair valued securities, restricted from public sale. See Notes 2, 3 and 7 in Notes to Financial Statements.
- (5) Distributions are paid-in-kind.

- (7) The Company owns an interest in the Creditors Trust of Miller Bros. Coal, LLC (Clearwater Trust) consisting of a coal royalty interest. See Notes 5 and 7 in Notes to Financial Statements.
- (8) Security is not currently paying cash distributions but is expected to pay cash distributions within the next 12 months.

Security or a portion thereof is segregated as collateral on option contracts written.

(9) Security is non-income producing.

See accompanying notes to financial statements.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

STATEMENT OF ASSETS AND LIABILITIES

FEBRUARY 28, 2013

 $(amounts\ in\ 000\ \ s,\ except\ share\ and\ per\ share\ amounts)$

(UNAUDITED)

ASSETS	
Investments at fair value:	
Non-affiliated (Cost \$2,330,290)	\$ 3,864,439
Affiliated (Cost \$480,334)	993,578
Total investments (Cost \$2,810,624)	4,858,017
Cash	9,772
Deposits with brokers	613
Receivable for securities sold	7,380
Interest, dividends and distributions receivable	1,485
Deferred debt issuance and preferred stock offering costs and other assets	10,301
Total Assets	4,887,568
A A A DAY AMANG	
LIABILITIES Payable for securities purchased	23,298
Investment management fee payable	15,713
Accrued directors fees and expenses	91
Call option contracts written (Premiums received \$1,217)	1,800
Accrued expenses and other liabilities	11,215
Interest rate swap contract	16
Current tax liability	573
Deferred tax liability	809,631
Credit facility	21,000
Senior unsecured notes	890,000
Mandatory redeemable preferred stock, \$25.00 liquidation value per share (14,960,000 shares issued and outstanding)	374,000
Mandatory redecinable preferred stock, \$25.00 inquidation value per share (14,700,000 shares issued and outstanding)	374,000
Total Liabilities	2,147,337
Total Liabilities	2,147,337
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS	\$ 2,740,231
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS CONSIST OF	
Common stock, \$0.001 par value (88,621,686 shares issued and outstanding, 185,040,000 shares authorized)	\$ 89
Paid-in capital	1,695,233
Accumulated net investment loss, net of income taxes, less dividends	(558,875)
Accumulated realized gains on investments, options, and interest rate swap contracts, net of income taxes	318,279
Net unrealized gains on investments and options, net of income taxes	1,285,505
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS	\$ 2,740,231
NET ACCET VALUE DED COMMON CHADE	\$ 30.92
NET ASSET VALUE PER COMMON SHARE	\$ 30.92

See accompanying notes to financial statements.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

STATEMENT OF OPERATIONS

FOR THE THREE MONTHS ENDED FEBRUARY 28, 2013

(amounts in 000 s)

(UNAUDITED)

INVESTMENT INCOME	
Income	
Dividends and distributions:	Φ 52.254
Non-affiliated investments	\$ 53,354
Affiliated investments	13,217
Total dividends and distributions	66,571
Return of capital	(56,837)
Distributions in excess of cost basis	(735)
Total Investment Income	8,999
Expenses	
Investment management fees	15,713
Administration fees	215
Professional fees	149
Custodian fees	117
Reports to stockholders	88
Directors fees and expenses	88
Insurance	58
Other expenses	200
oner expenses	200
Total expenses before interest expense, preferred distributions and taxes	16,628
Interest expense and amortization of debt issuance costs	9,573
Distributions on mandatory redeemable preferred stock and amortization of offering costs	4,845
Distributions on mandatory redeemable preferred stock and amortization of offering costs	7,073
	21.046
Total expenses before taxes	31,046
Net Investment Loss Before taxes	(22,047)
Current tax benefit	427
Deferred tax benefit	6,349
Net Investment Loss	(15,271)
REALIZED AND UNREALIZED GAINS (LOSSES)	
Net Realized Gains	
Investments non-affiliated	43,750
Options	186
Current tax expense	(1,024)
Deferred tax expense	(15,232)
	(,2)
Net Realized Gains	27.680
net realized Gallis	27,080

Net Change in Unrealized Gains (Losses)	Net	Change in	Unrealized	Gains	(Losses)
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Investments non-affiliated	280,511
Investments affiliated	116,833
Options	(610)
Interest Rate Swap Contracts	(16)
Deferred tax expense	(146,786)
Net Change in Unrealized Gains	249,932
Net Realized and Unrealized Gains	277,612
NET INCREASE IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS RESULTING FROM OPERATIONS	\$ 262,341

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY

STATEMENT OF CHANGES IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS

(amounts in 000 s, except share amounts)

	Mo Fe	the Three nths Ended bruary 28, 2013 (naudited)	For the Fiscal Year Ended November 30, 2012	
OPERATIONS				
Net investment loss, net of tax ⁽¹⁾	\$	(15,271)	\$	(58,611)
Net realized gains, net of tax		27,680		94,944
Net change in unrealized gains, net of tax		249,932		235,058
Net Increase in Net Assets Resulting from Operations		262,341		271,391
DIVIDENDS AND DISTRIBUTIONS TO COMMON STOCKHOLDERS(1)				
Dividends		$(21,889)^{(2)}$		$(127,330)^{(3)}$
Distributions return of capital		$(26,748)^{(2)}$		$(45,115)^{(3)}$
Dividends and Distributions to Common Stockholders		(48,637)		(172,445)
CAPITAL STOCK TRANSACTIONS				205.055
Issuance of common stock offering of 12,500,000 shares of common stock		(27)		385,075
Underwriting discounts and offering expenses associated with the issuance of common stock		(27)		(16,085)
Issuance of 190,273 and 801,204 newly issued shares of common stock from reinvestment of		5 722		22 202
dividends and distributions, respectively		5,733		23,282
Net Increase in Net Assets Applicable to Common Stockholders from Capital Stock Transactions		5,706		392,272
Total Increase in Net Assets Applicable to Common Stockholders		219,410		491,218
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS				
Beginning of period		2,520,821		2,029,603
End of period	\$	2,740,231	\$	2,520,821

⁽¹⁾ Distributions on the Company s mandatory redeemable preferred stock are treated as an operating expense under GAAP and are included in the calculation of net investment loss. See Note 2 Significant Accounting Policies. The Company estimates that the distribution in the amount of \$4,597 paid to mandatory redeemable preferred stockholders during the three months ended February 28, 2013 will be a dividend (eligible to be treated as qualified dividend income). This estimate is based solely on the Company s operating results during the period and does not reflect the expected results during the fiscal year. The actual characterization of the mandatory redeemable preferred stock distributions made during the period will not be determinable until after the end of the fiscal year when the Company can determine earnings and profits. Therefore, the characterization may differ from the preliminary estimates. Distributions in the amount of \$17,409 paid to mandatory redeemable preferred stockholders for the fiscal year ended November 30, 2012 were characterized as qualified dividend income. This characterization is based on the Company s earnings and profits.

(2) This is an estimate of the characterization of the distributions paid to common stockholders for the three months ended February 28, 2013 as either a dividend (eligible to be treated as qualified dividend income) or distributions (return of capital). This estimate is based on the Company s operating results during the period. The actual characterization of the common stock distributions made during the period will not be determined until after the end of the fiscal year when the Company can determine earnings and profits. Therefore, the characterization may differ from the preliminary estimates.

See accompanying notes to financial statements.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

STATEMENT OF CHANGES IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS

(amounts in 000 s, except share amounts)

(3) The information presented in each of these items is a characterization of a portion of the total dividends and distributions paid to common stockholders for the fiscal year ended November 30, 2012 as either dividends (eligible to be treated as qualified dividend income) or distributions (return of capital). This characterization is based on the Company s earnings and profits.

See accompanying notes to financial statements.

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KAYNE ANDERSON MLP INVESTMENT COMPANY

STATEMENT OF CASH FLOWS

FOR THE THREE MONTHS ENDED FEBRUARY 28, 2013

(amounts in 000 s)

(UNAUDITED)

CASH FLOWS FROM OPERATING ACTIVITIES	
Net increase in net assets resulting from operations	\$ 262,341
Adjustments to reconcile net increase in net assets resulting from operations to net cash provided by operating activities:	Ψ 202,3-1
Return of capital distributions	56,837
Net realized gains	(43,936)
Net unrealized gains	(397,328)
Purchase of long-term investments	(202,143)
Proceeds from sale of long-term investments	202,512
Increase in deposits with brokers	(397)
Increase in receivable for securities sold	(701)
Increase in interest, dividends and distributions receivable	(1,397)
Amortization of deferred debt issuance costs	333
Amortization of mandatory redeemable preferred stock issuance costs	248
Increase in other assets, net	(115)
Increase in payable for securities purchased	18,747
Increase in investment management fee payable	526
Decrease in accrued directors fees and expenses	(3)
Increase in call option contracts written, net	1,421
Decrease in accrued expenses and other liabilities	(8,048)
Increase in current tax liability	34
Increase in deferred tax liability	155,669
Net Cash Provided by Operating Activities	44,600
CASH FLOWS FROM FINANCING ACTIVITIES	
Proceeds from credit facility	2,000
Issuance of shares of common stock, net of offering costs	(27)
Costs associated with issuance of mandatory redeemable preferred stock	(15)
Cash distributions paid to common stockholders, net	(42,904)
Net Cash Used in Financing Activities	(40,946)
NET INCREASE IN CASH	3,654
CASH BEGINNING OF PERIOD	6,118
CASH END OF PERIOD	\$ 9,772

Supplemental disclosure of cash flow information:

Non-cash financing activities not included herein consist of reinvestment of distributions of \$5,733 pursuant to the Company s dividend reinvestment plan.

During the three months ended February 28, 2013, interest paid was \$17,264 and income tax paid was \$563.

The Company received \$7,135 paid-in-kind dividends during the three months ended February 28, 2013. See Note 2 Significant Accounting Policies.

See accompanying notes to financial statements.

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distributions

KAYNE ANDERSON MLP INVESTMENT COMPANY

FINANCIAL HIGHLIGHTS

(amounts in 000 s, except share and per share amounts)

	For the Three Months Ended February 28,	S	For the Fiscal Year Ended November 30,							For the Period September 28, 2004 ⁽¹⁾ through
	2013 (Unaudited)	2012	2011	2010	2009	2008	2007	2006	2005	November 30, 2004
Per Share of Common Stock ⁽²⁾										
Net asset value, beginning of period	\$ 28.51	\$ 27.01	\$ 26.67	\$ 20.13	\$ 14.74	\$ 30.08	\$ 28.99	\$ 25.07	\$ 23.91	\$ 23.70 ⁽³⁾
Net investment incom (loss) ⁽⁴⁾	e (0.17)	(0.71)	(0.69)	(0.44)	(0.33)	(0.73)	(0.73)	(0.62)	(0.17)	0.02
Net realized and unrealized gain (loss)	3.13	4.27	2.91	8.72	7.50	(12.56)	3.58	6.39	2.80	0.19
Total income (loss) from operations	2.96	3.56	2.22	8.28	7.17	(13.29)	2.85	5.77	2.63	0.21
Dividends and distributions auction rate preferred ⁽⁴⁾⁽⁵⁾	1				(0.01)	(0.10)	(0.10)	(0.10)	(0.05)	
Common dividends ⁽⁵⁾	(0.25)	(1.54)	(1.26)	(0.84)			(0.09)		(0.13)	
distributions return capital ⁽⁵⁾	of (0.30)	(0.55)	(0.72)	(1.08)	(1.94)	(1.99)	(1.84)	(1.75)	(1.37)	
Total dividends and distributions commo	on (0.55)	(2.09)	(1.98)	(1.92)	(1.94)	(1.99)	(1.93)	(1.75)	(1.50)	
Underwriting discounts and offering costs on the issuance of auction rate preferred stock	5								(0.03)	
Effect of issuance of common stock		0.02	0.09	0.16	0.12		0.26		0.11	
Effect of shares issued in reinvestment of	l									