Kayne Anderson MLP Investment CO
Form N-CSRS
August 09, 2005

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM N-CSR
CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21593

Kayne Anderson MLP Investment Company

(Exact name of registrant as specified in charter)

1800 Avenue of the Stars, Second Floor, Los Angeles, California 90067

(Address of principal executive offices) (Zip code)

David Shladovsky, Esq.
Kayne Anderson Capital Advisors, L.P., 1800 Avenue of the Stars, Second Floor,
Los Angeles, California 90067

(Name and address of agent for service)

Registrant s telephone number, including area code: (310) 556-2721
Date of fiscal year end: November 30
Date of reporting period: May 31, 2005

Form N-CSR is to be used by management investment companies to file reports with the Commission not later than 10 days after the transmission to stockholders of any report that is required to be transmitted to stockholders under Rule 30e-1 under the Investment Company Act of 1940 (17 CFR 270.30e-1). The Commission may use the information provided on Form N-CSR in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-CSR, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-CSR unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Reports to Stockholders.

The report of Kayne Anderson MLP Investment Company (the Registrant) to stockholders for the semi-annual period ended May 31, 2005 is attached below.

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CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS: This report 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 gen 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 Securities and Exchange Commission. 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 the Company s investment objective will be attained.

KAYNE ANDERSON MLP INVESTMENT COMPANY
PORTFOLIO SUMMARY AS OF MAY 31, 2005
(unaudited)

Top 10 Holdings, by Issuer

	Holding	Sector	Percent of Total Investments
1.	Enterprise Products Partners L.P.	Pipeline MLP	13.4
2.	Energy Transfer Partners, L.P.	Pipeline MLP	11.7
3.	Magellan Midstream Partners, L.P.	Pipeline MLP	9.6
4.	Kinder Morgan Management, LLC	Pipeline MLP	9.4
5.	Enbridge Energy Partners, L.P.	Pipeline MLP	8.1
6.	Inergy, L.P.	Propane MLP	7.4
7.	Plains All American Pipeline, L.P.	Pipeline MLP	3.6
8.	Ferrellgas Partners, L.P.	Propane MLP	3.5
9.	Kaneb Pipe Line Partners, L.P.	Pipeline MLP	3.1
10.	Northern Border Partners, L.P.	Pipeline MLP	2.4

KAYNE ANDERSON MLP INVESTMENT COMPANY
SCHEDULE OF INVESTMENTS
MAY 31, 2005
(shares and $ amounts in 000 s)
(unaudited)

Description	No. of Shares/Units	Value
Long-Term Investments 130.2%		
Equity Investments 129.3%		
Pipeline MLP(a) 100.8%		
Atlas Pipeline Partners, L.P.	162	$ 6,770
Buckeye Partners, L.P.	173	7,698
Copano Energy, L.L.C.	86	2,552
Crosstex Energy, L.P.	258	9,463
Enbridge Energy Management, L.L.C.(b)	413	20,347
Enbridge Energy Partners, L.P.	1,943	100,250
Energy Transfer Partners, L.P.	4,556	143,929
Enterprise Products Partners L.P.	5,229	134,397
Enterprise Products Partners L.P.(c)	1,204	30,309
Genesis Energy, L.P.(d)	134	1,263
Hiland Partners, LP(e)	37	1,298
Holly Energy Partners, L.P.	109	4,444
Kaneb Pipe Line Partners, L.P.	614	37,675
Kinder Morgan Energy Partners, L.P.	1	67
Kinder Morgan Management, LLC(b)	2,608	116,230
Magellan Midstream Partners, L.P.	486	15,258
Magellan Midstream Partners, L.P.(c)	3,478	102,697
MarkWest Energy Partners, L.P.	193	9,307
Northern Border Partners, L.P.	620	29,522
Pacific Energy Partners, L.P.	458	14,244
Plains All American Pipeline, L.P.	921	38,885
Sunoco Logistics Partners L.P.	26	955
TC PipeLines, LP	231	7,699
TEPPCO Partners, L.P.	447	18,467
TransMontaigne Partners L.P.(e)	59	1,448
		855,174
Propane MLP 15.8%		
Ferrellgas Partners, L.P.	1,947	42,845
Inergy, L.P.	34	1,062
Inergy, L.P.(c)	2,947	90,496
		134,403
Shipping MLP 2.4%		
K-Sea Transportation Partners L.P.	70	2,344

Martin Midstream Partners L.P.	113	3,546
Teekay LNG Partners L.P.(e)	172	4,530
U.S. Shipping Partners L.P.	392	10,035
		20,455
Coal MLP 1.1%		
Natural Resource Partners L.P.	33	1,931
Penn Virginia Resource Partners, L.P.	150	7,027
		8,958

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
SCHEDULE OF INVESTMENTS (CONTINUED)
(shares and $ amounts in 000 s)
(unaudited)

Description	No. of Shares/Units	Value
Other MLP 0.1%		
Dorchester Minerals, L.P.	43	$ 929
MLP Affiliates 7.7%		
Atlas America, Inc.(f)	127	3,968
Crosstex Energy, Inc.	417	19,072
Holly Corporation	90	3,445
Kaneb Services LLC	424	18,266
Kinder Morgan, Inc.	85	6,629
MarkWest Hydrocarbon, Inc.(d)	257	5,619
Resource America, Inc.	40	1,369
TransCanada Corporation	28	687
TransMontaigne Inc.	766	6,345
		65,400
Other Midstream Energy Companies 1.4%		
Arlington Tankers Ltd.	189	3,710
Diana Shipping Inc.	276	4,272
DryShips Inc.(e)	96	1,783
Nordic American Tanker Shipping Limited	23	932
Ship Finance International Limited	44	851
		11,548
Total Equity Investments (Cost $978,505)		1,096,867

	Interest Rate	Maturity Date	Principal Amount (in 000 s)	
Fixed Income Investments 0.9%				
Pipeline MLP 0.7%				
Plains All American Pipeline, L.P.	7.750%	10/15/12	$ 5,000	5,814
MLP Affiliates 0.2%				
TransMontaigne Inc.	9.125	06/01/10	2,000	2,040

Total Fixed Income Investments (Cost $7,836)					7,854
Total Long-Term Investments (Cost $986,341)					1,104,721
Short-Term Investment 15.3%					
Repurchase Agreement 15.3%					
Bear, Stearns & Co. Inc. (Agreement dated 05/31/05 to be repurchased at $129,361), collateralized by $132,819 in U.S. Government and Agency Securities (Cost $129,350)	2.970	06/01/05	129,350		129,350
Total Investments 145.5% (Cost $1,115,691)					1,234,071

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
SCHEDULE OF INVESTMENTS (CONCLUDED)
(shares and $ amounts in 000 s)
(unaudited)

	No. of Shares/ Units		Value
Liabilities (36.7)%			
Securities Sold Short (0.2)%			
Propane MLP (0.1)%			
AmeriGas Partners, L.P.	8	$	(249)
Suburban Propane Partners, L.P.	25		(825)
			(1,074)
Coal MLP (0.1)%			
Alliance Resource Partners, L.P.	7		(507)
Total Securities Sold Short (cash proceeds received $1,571)			(1,581)
Auction Rate Senior Notes (30.7)%			(260,000)
Unrealized Depreciation on Interest Rate Swap Contracts (0.5)%			(3,991)
Deferred Taxes (5.2)%			(43,927)
Other Liabilities in Excess of Other Assets (0.1)%			(1,230)
Total Liabilities			(310,729)
Preferred Stock at Redemption Value (8.8)%			(75,000)
Net Assets Applicable to Common Stockholders 100.0%		$	848,342

(a) Includes Limited Liability Companies or L.L.C.s.
(b) Distributions made are paid in-kind.
(c) Fair valued security. These securities are restricted from public sale. See Notes 2 and 6 in the accompany notes to the financial statements for further details. The Company negotiates certain aspects of the method and timing of the disposition of these investments, including registration rights and related costs.
(d) Security or a portion thereof is segregated as collateral on interest rate swap contracts and securities sold short.
(e) Currently non-income producing; security is expected to pay distributions within the next 12 months.
(f) Security is non-income producing.

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
STATEMENT OF ASSETS AND LIABILITIES
MAY 31, 2005
($ amounts in 000 s, except per share amounts)
(unaudited)

ASSETS		
Investments, at fair value (Cost $986,341)	$	1,104,721
Repurchase agreement (Cost $129,350)		129,350
Total investments (Cost $1,115,691)		1,234,071
Deposits with broker for securities sold short		2,530
Receivable for securities sold		4,169
Interest, dividends and distributions receivable		515
Prepaid expenses		3,167
Total Assets		1,244,452
LIABILITIES		
Payable for securities purchased		8,226
Investment management fee payable		2,119
Securities sold short, at fair value (Proceeds $1,571)		1,581
Accrued directors fees and expenses		14
Accrued expenses and other liabilities		1,252
Deferred taxes		43,927
Unrealized depreciation on interest rate swap contracts		3,991
Total Liabilities before Senior Notes		61,110
Auction rate senior notes:		
Series A, due April 3, 2045		85,000
Series B, due April 5, 2045		85,000
Series C, due March 31, 2045		90,000
Total Senior Notes		260,000
Total Liabilities		321,110
PREFERRED STOCK		
$25,000 liquidation value per share applicable to 3,000 outstanding shares (10,000 shares authorized)		75,000
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS	$	848,342
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS CONSIST OF		
Common stock, $0.001 par value (33,676,442 shares issued and outstanding, 200,000,000 shares authorized)	$	34
Paid-in capital		797,382

Distributions in excess of net investment loss, net of tax benefit		(22,513)
Accumulated realized gains on investments, securities sold short, options and interest rate swap contracts, net of income taxes		3,191
Net unrealized gain on investments, securities sold short and interest rate swap contracts, net of income taxes		70,248
NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS	$	848,342
NET ASSET VALUE PER COMMON SHARE	$	25.19

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
STATEMENT OF OPERATIONS
FOR THE SIX MONTHS ENDED MAY 31, 2005
($ amounts in 000 s)
(unaudited)

INVESTMENT INCOME		
Income		
Dividends and distributions	$	21,029
Return of capital		(18,212)
Net dividends and distributions		2,817
Interest		3,008
Total Investment Income		5,825
Expenses		
Investment management fees		3,711
Professional fees		328
Administration fees		315
Reports to stockholders		159
Custodian fees		147
Directors fees		132
Insurance		98
Dividends on securities sold short		69
Other expenses		215
Total Expenses Before Interest Expense, Auction Agent Fees and Taxes		5,174
Interest expense		1,944
Auction agent fees		89
Total Expenses Before Tax Benefit		7,207
Net Investment Loss Before Tax Benefit		(1,382)
Current tax benefit		538
Deferred tax expense		(6)
Net Investment Loss		(850)
REALIZED AND UNREALIZED GAINS		
Net Realized Gains/(Losses)		
Investments		4,599
Securities sold short		450
Options		(162)
Interest rate swap contracts		(371)
Current tax expense		(1,739)
Net Realized Gains		2,777

Net Change in Unrealized Gains/(Losses)		
Investments		108,290
Securities sold short		(10)
Options		561
Interest rate swap contracts		(4,144)
Deferred tax expense		(40,166)
Net Change in Unrealized Gains		64,531
Net Realized and Unrealized Gains		67,308
DIVIDENDS TO PREFERRED STOCKHOLDERS		(327)
NET INCREASE IN NET ASSETS APPLICABLE TO COMMON STOCKHOLDERS RESULTING FROM OPERATIONS	$	66,131

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
STATEMENT OF CHANGES IN NET ASSETS
ATTRIBUTABLE TO COMMON STOCKHOLDERS
($ amounts in 000 s)

	For the Six Months Ended May 31, 2005 (unaudited)	For the Period September 28, 2004[1] through November 30, 2004
OPERATIONS		
Net investment income/(loss)	$ (850)	$ 645
Net realized gains	2,777	414
Net change in unrealized gains	64,531	5,717
Net Increase in Net Assets Resulting from Operations	66,458	6,776
DIVIDENDS TO PREFERRED STOCKHOLDERS		
Dividends from net capital gains	(327)	
DIVIDENDS TO COMMON STOCKHOLDERS		
Dividends	(21,981)	
CAPITAL SHARE TRANSACTIONS		
Proceeds from initial public offering of 30,000,000 shares of common stock		750,000
Proceeds from issuance of 3,161,900 shares of common stock in connection with exercising an overallotment option granted to underwriters of the initial public offering		79,048
Underwriting discounts and offering expenses associated with the issuance of common stock		(43,088)
Underwriting discounts and offering expenses associated with the issuance of preferred stock	(1,087)	
Issuance of 510,542 shares of common stock from reinvestment of distributions	12,443	
Net Increase in Net Assets Applicable to Common Stockholders from Capital Stock Transactions	11,356	785,960
Total Increase in Net Assets Applicable to Common Stockholders	55,506	792,736
NET ASSETS		
Beginning of period	792,836	100

End of period (includes cumulative distributions in excess of net investment loss of $22,513 and undistributed net investment income of $645, respectively)	$ 848,342	$ 792,836

(1) Commencement of operations.

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
STATEMENT OF CASH FLOWS
FOR THE SIX MONTHS ENDED MAY 31, 2005
($ amounts in 000 s)
(unaudited)

CASH FLOWS FROM OPERATING ACTIVITIES		
Net increase in net assets resulting from operations	$	66,131
Adjustments to reconcile net increase in net assets resulting from operations to net cash used in operating activities:		
Purchase of investments		(745,672)
Proceeds from sale of investments		115,606
Proceeds from sale short-term investments		295,224
Realized gains		(4,516)
Return of capital distributions		18,212
Unrealized gains		(104,697)
Increase in deferred taxes		40,172
Amortization for bond premium		163
Increase in deposits with brokers for short sales		(2,530)
Increase in receivable for securities sold		(3,822)
Decrease in interest, dividend and distributions receivable		2,087
Increase in prepaid expenses		(3,013)
Increase in payable for securities purchased		433
Increase in investment management fee payable		1,148
Increase in securities sold short		1,571
Decrease in accrued directors fees and expenses		(16)
Increase in accrued expenses and other liabilities		61
Decrease in current taxes		(763)
Decrease in call options written		(201)
Net Cash Used in Operating Activities		(324,422)
CASH FLOWS FROM FINANCING ACTIVITIES		
Issuance of auction rate senior notes		260,000
Issuance of auction rate preferred stock		75,000
Underwriting discount and offering expenses associated with the issuance of preferred stock		(1,087)
Cash distributions paid to common stockholders		(9,538)
Net Cash Provided by Financing Activities		324,375
NET DECREASE IN CASH		(47)
CASH BEGINNING OF PERIOD		47
CASH END OF PERIOD	$	

Supplemental disclosure of cash flow information:

Noncash financing activities not included herein consist of reinvestment of distributions pursuant to the Company s dividend reinvestment plan of $12,443.

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
FINANCIAL HIGHLIGHTS
($ amounts in 000 s, except per share amounts)

	For the Six Months Ended May 31, 2005 (unaudited)	For the Period September 28, 2004[1] through November 30, 2004
Per Share of Common Stock		
Net asset value, beginning of period	$ 23.91	$ 23.70[2]
Underwriting discounts and offering costs on the issuance of preferred stock	(0.03)	
Income from investment operations		
Net investment income/(loss)	(0.04)[3]	0.02[4]
Net realized and unrealized gain on investments, securities sold short, options and interest rate swap contracts	2.02[3]	0.19[4]
Total income from investment operations	1.98	0.21
Dividends Preferred Stockholders		
Distributions from net capital gains	(0.01)	
Dividends Common Stockholders		
Dividends	(0.66)	
Net asset value, end of period	$ 25.19	$ 23.91
Per share of common stock market value, end of period	$ 26.00	$ 24.90
Total investment return based on common stock market value[5]	7.26%	(0.40)%
Supplemental Data and Ratios		
Net assets applicable to common stockholders, end of period	$ 848,342	$ 792,836
Ratio of expenses to average net assets, before taxes	1.76%[6]	1.20%[6]
Ratio of expenses, excluding non-recurring organizational expenses, to average net assets	1.76%[6]	1.08%[6]
Ratio of expenses, excluding taxes and interest expenses, to average net assets	1.26%[6]	
Ratio of net investment income to average net assets, after taxes	(0.32)%[6]	0.50%[6]
Net increase in net assets resulting from operations to average net assets	16.13%[6]	5.30%[6]
Portfolio turnover rate	13.72%[7]	11.78%[7]

Auction Rate Senior Notes outstanding, end of period	$	260,000
Auction Rate Preferred Stock, end of period	$	75,000
Borrowings outstanding per share of common stock, end of period	$	7.72
Common stock per share, excluding borrowings, end of period	$	32.91
Asset coverage, per $1,000 of principal amount of Auction Rate Senior Notes		
Series A, B and C		426.22%
Asset coverage, per $25,000 of liquidation value per share of Auction Rate Preferred Stock		353.19%
Average amount of borrowings outstanding per share of common stock during the period	$	3.57(3)

(1) Commencement of operations.
(2) Initial public offering price of $25.00 per share less underwriting discounts of $1.25 per share and offering costs of $0.05 per share.
(3) Based on average shares of common stock outstanding of 33,400,589.
(4) Information presented relates to a share of common stock outstanding for the entire period.
(5) Not annualized. Total investment return is calculated assuming a purchase of common stock at the market price on the first day and a sale at the current market price on the last day of the period reported. The calculation also assumes reinvestment of dividends and distributions, if any, at actual prices pursuant to the Company s dividend reinvestment plan.
(6) Ratios are annualized since period is less than one full year.
(7) Amount not annualized. Calculated based on the sales of $115,606 and $16,880, respectively, of long-term investments divided by the average long-term investment balance of $842,413 and $143,328 respectively.

See accompanying notes to financial statements.

KAYNE ANDERSON MLP INVESTMENT COMPANY
NOTES TO FINANCIAL STATEMENTS
MAY 31, 2005
($ amounts in 000 s, except per share amounts)
(unaudited)

1. Organization

Kayne Anderson MLP Investment Company (the Company) was organized as a Maryland corporation on June 4, 2004, and is a non-diversified, closed-end management investment company registered under the Investment Company Act of 1940, as amended (the 1940 Act). The Company s investment objective is to obtain a high after-tax total return by investing at least 85% of its net assets plus any borrowings (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 of natural gas, natural gas liquids (including propane), crude oil, refined petroleum products or coal (collectively with MLPs, Midstream Energy Companies). The Company commenced operations on September 28, 2004. The Company s shares of common stock are listed on the New York Stock Exchange, Inc. (NYSE) under the symbol KYN .

2. Significant Accounting Policies

A. *Use of Estimates* The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the period. Actual results could differ from those estimates.

B. *Calculation of Net Asset Value* The Company determines its net asset value as of the close of regular session trading on the NYSE (normally 4:00 p.m. Eastern time) no less frequently than the last business day of each month, and makes its net asset value available for publication monthly. Net asset value is computed by dividing the value of the Company s assets (including accrued interest and dividends), less all of its liabilities (including accrued expenses, dividends payable, current and deferred and other accrued income taxes, and any borrowings) and the liquidation value of any outstanding preferred stock, by the total number of common shares outstanding.

C. *Investment Valuation* Readily marketable portfolio securities listed on any exchange other than the NASDAQ Stock Market, Inc. (NASDAQ) are valued, except as indicated below, at the last sale price on the business day as of which such value is being determined. If there has been no sale on such day, the securities are valued at the mean of the most recent bid and asked prices on such day, except for short sales and call options written, for which the last quoted asked price is used. Securities admitted to trade on the NASDAQ are valued at the NASDAQ official closing price. Portfolio securities traded on more than one securities exchange are valued at the last sale price on the business day as of which such value is being determined at the close of the exchange representing the principal market for such securities.

Equity securities traded in the over-the-counter market, but excluding securities admitted to trading on the NASDAQ, are valued at the closing bid prices. Fixed income securities with a remaining maturity of 60 days or more are valued by the Company using a pricing service. Fixed income securities maturing within 60 days will be valued on an amortized cost basis.

The Company holds securities that are privately issued or otherwise restricted. For these securities, as well as any other portfolio security held by the Company for which reliable market quotations are not readily available, valuations are determined in a manner that most fairly reflects fair value of the security on the

KAYNE ANDERSON MLP INVESTMENT COMPANY
NOTES TO FINANCIAL STATEMENTS (CONTINUED)
($ amounts in 000 s, except per share amounts)
(unaudited)

valuation date. Unless otherwise determined by the Board of Directors, the following valuation process is used for such securities:

Investment Team Valuation. The applicable investments are initially valued by Kayne Anderson Capital Advisors, L.P. s (Kayne Anderson or the Adviser) investment professionals responsible for the portfolio investments;

Investment Team Valuation Documentation. Preliminary valuation conclusions are documented and discussed with senior management of Kayne Anderson. Such valuations generally are submitted to the Valuation Committee (a committee of the Company s Board of Directors) or the Board of Directors on a monthly basis, and stand for intervening periods of time.

Valuation Committee. The Valuation Committee meets on or about the end of each month to consider new valuations presented by Kayne Anderson, if any, which were made in accordance with the Valuation Procedures in such month. Between meetings of the Valuation Committee, a senior officer of Kayne Anderson is authorized to make valuation determinations. The Valuation Committee s valuations stands for intervening periods of time unless the Valuation Committee meets again at the request of Kayne Anderson, the Board of Directors, or the Committee itself. All valuation determinations of the Valuation Committee are subject to ratification by the Board at its next regular meeting.

Valuation Firm. No less than quarterly, a third-party valuation firm engaged by the Board of Directors reviews the valuation methodologies and calculations employed for these securities.

Board of Directors Determination. The Board of Directors meets quarterly to consider the valuations provided by Kayne Anderson and the Valuation Committee, if applicable, and ratify valuations for the applicable securities. The Board of Directors considers the report provided by the third-party valuation firm in reviewing and determining in good faith the fair value of the applicable portfolio securities.

Unless otherwise determined by the Board of Directors, securities that are convertible into or otherwise will become publicly traded (*e.g.,* through subsequent registration or expiration of a restriction on trading) are valued through the process described above, using a valuation based on the market value of the publicly traded security less a discount. The discount is initially equal in amount to the discount negotiated at the time the purchase price is agreed to. To the extent that such securities are convertible or otherwise become publicly traded within a time frame that may be reasonably determined, Kayne Anderson may determine an amortization schedule for the discount in accordance with a methodology approved by the Valuation Committee.

At May 31, 2005, the Company held 26.4% of its net assets in securities valued at fair value as determined pursuant to procedures adopted by the Board of Directors, with an aggregate cost of $205,041 and fair value of $223,502. Although these securities may be resold in privately negotiated transactions, these values may differ from the values that would have been used had a ready market for these securities existed, and the differences could be material.

Any option transaction that the Company enters into may, depending on the applicable market environment, have no value or a positive/negative value. Exchange traded options and futures contracts are valued at the closing price in the market where such contracts are principally traded.

D. *Repurchase Agreements* The Company has agreed to purchase securities from financial institutions subject to the seller s agreement to repurchase them at an agreed-upon time and price (repurchase agreements). The financial institutions with whom the Company enters into repurchase agreements are banks and broker/ dealers which Kayne

Anderson considers creditworthy. The seller under a repurchase agreement is required to maintain the value of the securities as collateral, subject to the agreement, at not less than the repurchase price plus accrued interest. Kayne Anderson monitors daily the mark-to-market of the

KAYNE ANDERSON MLP INVESTMENT COMPANY
NOTES TO FINANCIAL STATEMENTS (CONTINUED)
($ amounts in 000 s, except per share amounts)
(unaudited)

value of the collateral, and, if necessary, requires the seller to maintain additional securities, so that the value of the collateral is not less than the repurchase price. Default by or bankruptcy of the seller would, however, expose the Company to possible loss because of adverse market action or delays in connection with the disposition of the underlying securities.

E. *Short Sales* A short sale is a transaction in which the Company sells securities it does not own (but has borrowed) in anticipation of a decline in the market price of the securities. To complete a short sale, the Company may arrange through a broker to borrow the securities to be delivered to the buyer. The proceeds received by the Company for the short sale are retained by the broker until the Company replaces the borrowed securities. In borrowing the securities to be delivered to the buyer, the Company becomes obligated to replace the securities borrowed at their market price at the time of replacement, whatever the price may be.

All short sales are fully collateralized. The Company maintains assets consisting of cash or liquid securities equal in amount to the liability created by the short sale. These assets are adjusted daily to reflect changes in the value of the securities sold short. The Company is liable for any dividends or distributions paid on securities sold short.

The Company may also sell short against the box (*i.e.,* the Company enters into a short sale as described above while holding an offsetting long position in the security which it sold short). If the Company enters into a short sale against the box, the Company segregates an equivalent amount of securities owned as collateral while the short sale is outstanding.

F. *Option Writing* When the Company writes an option, an amount equal to the premium received by the Company is recorded as a liability and is subsequently adjusted to the current fair value of the option written. Premiums received from writing options that expire unexercised are treated by the Company on the expiration date as realized gains from investments. The difference between the premium and the amount paid on effecting a closing purchase transaction, including brokerage commissions, is also treated as a realized gain, or if the premium is less than the amount paid for the closing purchase transaction, as a realized loss. If a call option is exercised, the premium is added to the proceeds from the sale of the underlying security in determining whether the Company has realized a gain or loss. If a put option is exercised, the premium reduces the cost basis of the securities purchased by the Company. The Company, as the writer of an option, bears the market risk of an unfavorable change in the price of the security underlying the written option.

G. *Security Transactions and Investment Income* Security transactions are accounted for on the date the securities are purchased or sold (trade date). Realized gains and losses are reported on an identified cost basis. Dividend and distribution income is recorded on the ex-dividend date. Distributions received from the Company s investments in MLPs generally are comprised of income and return of capital. For the six months ended May 31, 2005, the Company recorded as return of capital the amount of $18,212 of dividends and distributions received from MLPs. This resulted in a reduction in the cost basis of the associated MLP investments. Net Realized Gains and Net Change in Unrealized Gains on the accompanying Statement of Operations includes $688 and $17,524, respectively, attributable to such dividend and distributions. The Company records investment income and return of capital based on estimates made at the time such distributions are received. Such estimates are based on historical information available from each MLP and other industry sources. These estimates may subsequently be revised based on information received from MLPs after their tax reporting periods are concluded. Interest income is recognized on the accrual basis, including amortization of premiums and accretion of discounts.

H. *Dividends to Stockholders* Dividends to common stockholders are recorded on the ex-dividend date. The character of dividends made during the year may differ from their ultimate characterization for federal income tax purposes. Distributions to shareholders of the Company s Auction Rate Preferred Stock,

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Series D are accrued on a daily basis and are determined as described in Note 11. The Company s dividends, for book purposes, will be comprised of return of capital and ordinary income, which is based on the operating results of the Company. The Company is unable to make final determinations as to the character of the dividend until after the end of the calendar year. Since the first dividend paid to stockholders was in January 2005, the Company will inform stockholders of the final character of the dividend during January 2006.

I. *Federal and State Income Taxation* The Company, as a corporation, is obligated to pay federal and state income tax on its taxable income. The Company invests its assets primarily in MLPs, which generally are treated as partnerships for federal income tax purposes. As a limited partner in the MLPs, the Company reports its allocable share of the MLP s taxable income in computing its own taxable income. The Company s tax expense or benefit is included in the Statement of Operations based on the component of income or gains/(losses) to which such expense or benefit relates. Deferred income taxes reflect the net tax effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. To the extent the Company has a net deferred tax asset, a valuation allowance is recognized if, based on the weight of available evidence, it is more likely than not that some portion or all of the deferred income tax asset is not realized. Future realization of deferred income tax assets ultimately depends on the existence of sufficient taxable income of the appropriate character in either the carryback or carryforward period under the tax law.

The Company may rely to some extent on information provided by the MLPs, which may not necessarily be timely, to estimate taxable income allocable to the MLP units held in the portfolio and to estimate the associated deferred tax liability. Such estimates are made in good faith and reviewed in accordance with the valuation process approved by the Board of Directors. From time to time the Company modifies its estimates or assumptions regarding the deferred tax liability as new information becomes available. To the extent such estimates or assumptions are modified, the net asset value may fluctuate.

J. *Organization Expenses, Offering and Debt Issuance Costs* The Company is responsible for paying all organization expenses, which were expensed when the shares of common stock were issued. Such costs approximated $150. Offering costs related to the issuance of common stock were charged to additional paid-in capital when the shares were issued. Such costs approximated $1,596. Offering costs related to the issuance of Series D, preferred stock were charged to additional paid-in capital when the shares were issued. Such costs approximated $1,087. Debt issuance costs of $3,036 related to the auction rate senior notes payable are being capitalized and amortized over the period the notes are outstanding.

K. *Derivative Financial Instruments* The Company uses derivative financial instruments (principally interest rate swap contracts) to manage interest rate risk. The Company has established policies and procedures for risk assessment and the approval, reporting and monitoring of derivative financial instrument activities. The Company does not hold or issue derivative financial instruments for speculative purposes. All derivative financial instruments are recorded at fair value with changes in value during the reporting period, and amounts accrued under the agreements, included as unrealized gains or losses in the Statement of Operations. Monthly cash settlements under the terms of the interest rate swap agreements are recorded as realized gains or losses in the Statement of Operations. The Company generally values its interest rate swap contracts based on dealer quotations, if available, or by discounting the future cash flows from the stated terms of the interest rate swap agreement by using interest rates currently available in the market.

L. *Indemnifications* Under the Company s organizational documents, its officers and directors are indemnified against certain liabilities arising out of the performance of their duties to the Company. In addition, in the normal course of business, the Company enters into contracts that provide general indemnification to other parties. The Company s maximum exposure under these arrangements is unknown, as this would involve future claims that may be made against the Company that have not yet occurred, and may

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not occur. However, the Company has not had prior claims or losses pursuant to these contracts and expects the risk of loss to be remote.

3. Concentration of Risk

The Company s investment objective is to seek a high level of total return with an emphasis on current dividends paid to its shareholders. Under normal circumstances, the Company intends to invest at least 85% of its total assets in securities of MLPs and other Midstream Energy Companies, and to invest at least 80% of its total assets in MLPs, which are subject to certain risks, such as supply and demand risk, depletion and exploration risk, commodity pricing risk, acquisition risk, and the risk associated with the hazards inherent in midstream energy industry activities. A substantial portion of the cash flow received by the Company will be derived from the investment in equity securities of MLPs. The amount of cash that an MLP has available for distributions and the tax character of such distributions are dependent upon the amount of cash generated by the MLP s operations. The Company may invest up to 15% of its total assets in any single issuer and a decline in value of the securities of such an issuer could significantly impact the net asset value of the Company. The Company may invest up to 20% of its total assets in debt securities, which may include below investment grade securities. The Company may, for defensive purposes, temporarily invest all or a significant portion of its assets in investment grade securities, short-term debt securities and cash or cash equivalents. To the extent the Company uses this strategy, it may not achieve its investment objectives.

4. Agreements and Affiliations

The Company has entered into an Investment Management Agreement with Kayne Anderson under which the Adviser, subject to the overall supervision of the Company s Board of Directors, manages the day-to-day operations of, and provides investment advisory services to, the Company. For providing these services, the Adviser receives a management fee from the Company.

Pursuant to the Investment Management Agreement, the Company has agreed to pay the Adviser a basic management fee at an annual rate of 1.75% of the Company s average total assets, adjusted upward or downward (by up to 1.00% of the Company s average total assets, as defined), depending on to what extent, if any, the Company s investment performance for the relevant performance period exceeds or trails the Company s Benchmark over the same period. The Company s Benchmark is the total return (capital appreciation and reinvested dividends) of the Standard & Poor s 400 Utilities Index plus 600 basis points (6.00%). Each 0.01% of difference of the Company s performance compared to the performance of the Benchmark is multiplied by a performance fee adjustment of 0.002%, up to a maximum adjustment of 1.00% (as an annual rate). The Company calculates the total management fee based on the average total assets for the prior 12 months. For the period beginning with the commencement of the Company s operations through the end of the Company s first 12 months of operations (the Initial Period), on a quarterly fiscal basis the Company pays the Adviser a minimum management fee calculated at an annual rate of 0.75%. After this Initial Period, the basic management fee and the performance fee adjustment will be calculated and paid quarterly beginning with the quarter ending November 30, 2005, using a rolling 12-month performance period. Management fees in excess of those paid will be accrued monthly.

The performance record for the Benchmark is based on the change in value of the Benchmark during the relevant performance period. During the Company s first fiscal year, for purposes of calculating the performance fee adjustment, the Company s initial net asset value was calculated net of the underwriter discount. At May 31, 2005, the Company has recorded accrued management fees at the annual rate of 0.75% based on the Company s investment performance for the period September 28, 2004 through May 31, 2005.

For purposes of calculating the management fee, the Company s total assets are equal to the Company s average monthly gross asset value (which includes assets attributable to or proceeds from the Company s use

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of preferred stock, commercial paper or notes issuances and other borrowings), minus the sum of the Company s accrued and unpaid dividends on any outstanding common stock and accrued and unpaid dividends on any outstanding preferred stock and accrued liabilities (other than liabilities associated with borrowing or leverage by the Company and any accrued taxes). Liabilities associated with borrowing or leverage by the Company include the principal amount of any borrowings, commercial paper or notes issued by the Company, the liquidation preference of any outstanding preferred stock, and other liabilities from other forms of borrowing or leverage such as short positions and put or call options held or written by the Company.

For the six months ended May 31, 2005, KA Associates, Inc., an affiliate of the Adviser, earned approximately $11 in brokerage commissions from portfolio transactions executed on behalf of the Company.

5. Income Taxes

Deferred income taxes reflect the net tax effect of temporary differences between the carrying amount of assets and liabilities for financial reporting and tax purposes. Components of the Company s deferred tax assets and liabilities as of May 31, 2005 are as follows:

Deferred tax assets:		
Organization costs	$	(51)
Deferred tax liabilities:		
Unrealized gains on investment securities		36,620
Distributions received from MLPs		7,358
Total net deferred tax liability	$	43,927

At May 31, 2005, the Company did not record a valuation allowance against its deferred tax assets.

The components of income tax expense include $39,805 and $4,122 for deferred federal income taxes and state income taxes (net of the federal tax benefit), respectively.

Total income taxes have been computed by applying the Federal statutory income tax rate plus a blended state income tax rate totaling 38.5% to net investment income and realized and unrealized gains on investments before taxes.

At May 31, 2005, the cost basis of investments for Federal income tax purposes was $1,115,691 and the cash received on securities sold short was $1,571. At May 31, 2005, gross unrealized appreciation and depreciation of investments and securities sold short for Federal income tax purposes were as follows:

Gross unrealized appreciation of investments (including securities sold short)	$	120,732
Gross unrealized depreciation of investments (including securities sold short)		(2,362)
Net unrealized appreciation before tax and interest rate swap contracts		118,370
Unrealized depreciation on interest rate swap contracts		(4,144)
Net unrealized appreciation before tax	$	114,226
Net unrealized appreciation after tax	$	70,248

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KAYNE ANDERSON MLP INVESTMENT COMPANY
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6. Restricted Securities

Certain of the Company s investments are restricted as to resale and are valued as determined in accordance with procedures established by the Board of Directors and more fully described in Note 2. The table below shows the number of units held, the acquisition dates, aggregate costs, fair value as of May 31, 2005, value per unit of such securities, percent of net assets and percent of total assets which the securities comprise.

Partnership	Security	Number of Units (in 000 s)	Acquisition Date	Cost	Fair Value	Value Per Unit	Percent of Net Assets	Percent of Total Assets
Enterprise Products Partners, L.P.	Common Units	1,204	04/01/05	$ 30,000	$ 30,309	$ 25.18	3.6%	2.4%
Inergy, L.P.	Common Units	2,947	12/17/04	75,034	90,496	30.71	10.7	7.3
Magellan Midstream Partners, L.P.	Subordinated Units	3,478	04/13/05	100,007	102,697	29.53	12.1	8.3
				$ 205,041	$ 223,502		26.4%	18.0%

7. Call Options Written

Transactions in written options for the six months ended May 31, 2005 were as follows:

	Number of Contracts (in 000 s)	Premiums Received
Options outstanding at beginning of period	2	$ 201
Options written		
Options terminated in closing purchase transactions	(1)	(169)
Options expired	(1)	(32)
Options outstanding at end of period		$

8. Investment Transactions

For the period ended May 31, 2005, the Company purchased and sold securities in the amount of $745,672 and $115,606 (excluding short-term investments, securities sold short, options and interest rate swaps), respectively.

9. Bank Loan Outstanding

The Company has an uncommitted revolving credit line with Custodial Trust Company (an affiliate of the administrator, Bear Stearns Funds Management Inc.), under which the Company may borrow from Custodial Trust Company an aggregate amount of up to the lesser of $200,000 or the maximum amount the Company is permitted to borrow under the 1940 Act, subject to certain limitations imposed by the lender. For the six months ended May 31, 2005, the average amount outstanding was $26,538, with a weighted average interest rate of 3.87%. As of May 31, 2005, the Company had no outstanding bank borrowings and does not intend to borrow on this line.

10. Auction Rate Senior Notes

On March 28, 2005, the Company issued three series of auction rate notes, each with a maturity of 40 years, having an aggregate principal amount of $260,000 (Senior Notes). The Senior Notes were issued in denominations of $25,000 per note. The principal amount of the Senior Notes will be due and payable on various dates as follows: Series A on April 3, 2045, Series B on April 5, 2045 and Series C on March 31, 2045.

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Fair value of the notes approximates carrying amount because the interest rate fluctuates with changes in interest rates available in the current market.

Holders of the Notes are entitled to receive cash interest payments at an annual rate that may vary for each rate period. Interest rates for Series A, Series B and Series C as of May 31, 2005 were 3.34%, 3.19% and 3.27%, respectively. The weighted average interest rates for Series A, Series B and Series C for the period from March 28, 2005 through May 31, 2005, were 3.29%, 3.29% and 3.27%, respectively. These rates include the applicable rate based on the latest results of the auction, plus commissions paid to the auction agent in the amount of 0.25%. For each subsequent rate period, the interest rate will be determined by an auction conducted in accordance with the procedures described in the Notes prospectus. The reset rate period for Series A and Series B Notes are seven days, while Series C Notes reset every 28 days. The Notes will not be listed on any exchange or automated quotation system.

The Notes are redeemable in certain circumstances at the option of the Company. The Notes are also subject to a mandatory redemption if the Company fails to meet an asset coverage ratio required by law, or fails to cure deficiency as stated in the Company s rating agency guidelines in a timely manner.

The Notes are unsecured obligations of the Company and, upon liquidation, dissolution or winding up of the Company, will rank: (1) senior to all the Company s outstanding preferred shares; (2) senior to all of the Company s outstanding common shares; (3) on a parity with any unsecured creditors of the Company and any unsecured senior securities representing indebtedness of the Company; and (4) junior to any secured creditors of the Company.

11. Preferred Stock

On April 12, 2005, the Company issued 3,000 shares of Series D auction rate preferred stock totaling $75,000. The Company has 10,000 shares of authorized preferred stock. The preferred stock has rights determined by the Board of Directors. The preferred stock has a liquidation value of $25,000 per share plus any accumulated, but unpaid dividends, whether or not declared.

Holders of the preferred stock are entitled to receive cash dividend payments at an annual rate that may vary for each rate period. The dividend rate as of May 31, 2005 was 3.16%. The weighted average dividend rate for the period from April 12, 2005 through May 31, 2005, was 3.15%. This rate includes the applicable rate based on the latest results of the auction, plus commissions paid to the auction agent in the amount of 0.25%. Under the 1940 Act, the Company may not declare dividends or make other distribution on shares of common stock or purchases of such shares if, at the time of the declaration, distribution or purchase, asset coverage with respect to the outstanding preferred stock would be less than 200%.

The preferred stock is redeemable in certain circumstances at the option of the Company. The preferred stock is also subject to a mandatory redemption if the Company fails to meet an asset coverage ratio required by law, or fails to cure deficiency as stated in the Company s rating agency guidelines in a timely manner.

The holders of the preferred stock have voting rights equal to the holders of common stock (one vote per share) and will vote together with the holders of shares of common stock as a single class except on matters affecting only the holders of preferred stock or the holders of common stock.

12. Interest Rate Swap Contracts

The Company has entered into interest rate swap contracts to hedge itself from increasing interest expense on its leverage resulting from increasing short-term interest rates. A decline in interest rates may result in a decline in the value of the swap contracts, which, everything else being held constant, would result in a decline in the net assets of the Company. In addition, if the counterparty to the interest rate swap

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contracts defaults, the Company would not be able to use the anticipated receipts under the swap contracts to offset the interest payments on the Company s leverage. At the time the interest rate swap contracts reach their scheduled termination, there is a risk that the Company would not be able to obtain a replacement transaction or that the terms of the replacement transaction would not be as favorable as on the expiring transaction. In addition, if the Company is required to terminate any swap contract early, then the Company could be required to make a termination payment. As of May 31, 2005, the Company has entered into nine interest rates swap contracts with UBS AG as summarized below:

Termination Dates	Notional Amounts	Fixed Rates Paid by the Company	Floating Rate Received by the Company	Unrealized Depreciation
03/25/08-05/09/12	$ 250,000	4.12-4.65%	1 month U.S. Dollar LIBOR	$ 3,991

The Company is exposed to credit risk on the interest rate swap contracts if the counterparty should fail to perform under the terms of the interest rate swap contracts.

13. Common Stock

The Company has 200,000,000 shares of common stock authorized and 33,676,442 shares outstanding at May 31, 2005. Transactions in common shares for the period ended May 31, 2005, were as follows:

Shares at November 30, 2004	33,165,900
Shares issued through reinvestment of distributions	510,542
Shares at May 31, 2005	33,676,442

On March 25, 2005, the Company filed a registration statement relating to a secondary common stock offering with the Securities and Exchange Commission and filed an amendment to the registration statement on May 17, 2005. The Company originally expected to issue such common shares during the Company s second fiscal quarter of 2005. The Company continues to pursue a secondary common stock offering, but does not have an expectation as to when such offering will occur.

14. Subsequent Events

On July 15, 2005, the Company paid a dividend distribution to its common stockholders in the amount of $0.415 per share, for a total of $13,976. Of this total, pursuant to the Company s dividend reinvestment plan, $6,571 was reinvested into the Company and an additional 249,656 shares of common stock were issued.

On June 15, 2005, the Company held its annual meeting of stockholders where the following two matters were approved by stockholders: (i) the election of one director of the Company and (ii) a proposal to authorize the Company to sell shares of its common stock for less than net asset value per share, subject to certain conditions. On the first matter, 31,444,038 shares were cast in favor, no shares were cast against, and 201,634 shares abstained. The second matter was approved by 11 of the Company s 19 common stockholders of record, with 1 voting against and no abstentions. The second matter was also approved by a majority of the votes cast by the Company s stockholders at the meeting, as follows: 7,299,084 shares were cast in favor, 1,058,544 shares were cast against and 251,686 shares abstained. As a result of the vote on the first matter, Gerald I. Isenberg was elected to serve as a director of the

Company for a 3-year term. In addition to Mr. Isenberg, the Company s directors with terms continuing after the meeting are Anne K. Costin, Steven C. Good, Terrence J. Quinn and Kevin S. McCarthy.

KAYNE ANDERSON MLP INVESTMENT COMPANY
PRIVACY POLICY NOTICE
(unaudited)

Kayne Anderson MLP Investment Company (the Company) considers privacy to be fundamental to our relationship with our stockholders. We are committed to maintaining the confidentiality, integrity and security of the non-public personal information of our stockholders and potential investors. Accordingly, we have developed internal policies to protect confidentiality while allowing stockholders needs to be met. This notice applies to former as well as current stockholders and potential investors who provide us with nonpublic personal information.

We may collect several types of nonpublic personal information about stockholders or potential investors, including:

Information from forms that you may fill out and send to us or one of our affiliates or service providers in connection with an investment in the Company (such as name, address, and social security number).

Information you may give orally to us or one of our affiliates or service providers.

Information about your transactions with us, our affiliates, or other third parties, such as the amount stockholders have invested in the Company.

Information about any bank account stockholders or potential investors may use for transfers between a bank account and an account that holds or is expected to hold shares of our stock.

Information collected through an Internet cookie (an information collecting device from a web server based on your use of a web site).

We may disclose all of the information we collect, as described above, to certain nonaffiliated third parties such as attorneys, accountants, auditors and persons or entities that are assessing our compliance with industry standards. Such third parties are required to uphold and maintain our privacy policy when handling your nonpublic personal information.

We may disclose information about stockholders or potential investors at their request. We will not sell or disclose your nonpublic personal information to anyone except as disclosed above or as otherwise permitted or required by law.

Within the Company and our affiliates, access to information about stockholders and potential investors is restricted to those personnel who need to know the information to service stockholder accounts. The personnel of the Company and our affiliates have been instructed to follow our procedures to protect the privacy of your information.

We reserve the right to change this privacy notice in the future. Except as described in this privacy notice, we will not use your personal information for any other purpose unless we inform you how such information will be used at the time you disclose it or we obtain your permission to do so.

PROXY VOTING AND PORTFOLIO HOLDINGS INFORMATION
(unaudited)

The policies and procedures that the Company uses to determine how to vote proxies relating to its portfolio securities are available:

by calling (877) 657-3863/MLP-FUND;

on the Fund s website, *http://www.kaynemlp.com;* or

on the website of the Securities and Exchange Commission, *http://www.sec.gov*.

The Company files a complete schedule of its portfolio holdings for the first and third quarters of its fiscal year with the SEC on Form N-Q. The Company s Forms N-Q are available on the SEC s website at http://www.sec.gov and may be reviewed and copied at the SEC s Public Reference Room in Washington, DC. Information on the operation of the SEC s Public Reference Room may be obtained by calling 1-800-SEC-0330.

Directors and Corporate Officers

Kevin S. McCarthy	Chairman of the Board of Directors, President and Chief Executive Officer
Anne K. Costin	Director
Steven C. Good	Director
Gerald I. Isenberg	Director
Terrence J. Quinn	Director
Ralph Collins Walter	Director
David J. Shladovsky	Chief Financial Officer
J.C. Frey	Secretary and Chief Compliance Officer
James C. Baker	Vice President, Assistant Secretary and Assistant Treasurer
	Vice President

Investment Adviser
Kayne Anderson Capital Advisors, L.P.
1800 Avenue of the Stars, Second Floor
Los Angeles, CA 90067
1100 Louisiana Street, Suite 4550
Houston, TX 77002

Administrator
Bear Stearns Funds Management Inc.
383 Madison Avenue
New York, NY 10179

Stock Transfer Agent and Registrar
American Stock Transfer & Trust Company
59 Maiden Lane
New York, NY 10038

Custodian
Custodial Trust Company
101 Carnegie Center
Princeton, NJ 08540

Independent Registered Public Accounting Firm
PricewaterhouseCoopers LLP
350 South Grand Avenue
Los Angeles, CA 90071

Legal Counsel
Paul, Hastings, Janofsky & Walker LLP
55 Second Street, 24th Floor
San Francisco, CA 94105

For stockholder inquiries, registered stockholders should call (800) 937-5449. For general inquiries, please call (877) 657-3863/MLP-FUND; or visit us on the web at *http://www.kaynemlp.com.*

This report, including the financial statements herein, is made available to stockholders of the Company for their information. The financial information included herein is taken from the records of the Company without examination by independent registered public accountants who do not express an opinion thereon. It is not a prospectus, circular or representation intended for use in the purchase or sale of shares of the Company or of any securities mentioned in this report.

Item 2. Code of Ethics
Not applicable.
Item 3. Audit Committee Financial Expert
Not applicable.
Item 4. Principal Accountant Fees and Services
Not applicable.
Item 5. Audit Committee of Listed Registrants
Not applicable.
Item 6. Schedule of Investments
Please see the schedule of investments contained in the Report to Stockholders included under Item 1 of this Form N-CSR.
Item 7. Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies
Not applicable.
Item 8. Portfolio Managers of Closed-End Management Investment Companies
Not applicable.
Item 9. Purchases of Equity Securities by Closed-End Management Companies and Affiliated Purchasers
Not applicable.

Item 10. Submission of Matters to a Vote of Security Holders.

Not applicable.

Item 11. Controls and Procedures.

(a) The Registrant s principal executive officer and principal financial officer have evaluated the Registrant s disclosure controls and procedures as of a date within 90 days of this filing and have concluded that the Registrant s disclosure controls and procedures are effective, as of such date, in ensuring that information required to be disclosed by the registrant in this Form N-CSR was recorded, processed, summarized, and reported timely.

(b) The Registrant s principal executive officer and principal financial officer are aware of no changes in the Registrant s internal control over financial reporting that occurred during the Registrant s last fiscal half-year that has materially affected, or is reasonably likely to materially affect, the Registrant s internal control over financial reporting.

Item 12. Exhibits.

(a) Not applicable.

(b)(1) Separate certifications of Principal Executive and Financial Officers pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 attached as EX-99.CERT.

(2) Certification of Principal Executive and Financial Officers pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 furnished as EX-99.906 CERT.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

KAYNE ANDERSON MLP INVESTMENT COMPANY

By: /S/ RALPH COLLINS WALTER
Date: August 9, 2005

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

By: /S/ KEVIN S. MCCARTHY

Date: August 9, 2005

By: /S/ RALPH COLLINS WALTER

Date: August 9, 2005