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Kayne Anderson MLP Investment CO

Form NSAR-A

July 24, 2009

000 A000000 05/31/2009  
000 C000000 0001293613  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 KAYNE ANDERSON MLP INVESTMENT COMPANY  
001 B000000 811-21593  
001 C000000 8776573863  
002 A000000 717 TEXAS AVENUE, SUITE 3100  
002 B000000 HOUSTON  
002 C000000 TX  
002 D010000 77002  
003 000000 N  
004 000000 N  
005 000000 N  
006 000000 N  
007 A000000 N  
007 B000000 0  
007 C010100 1  
007 C010200 2  
007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 KA FUND ADVISORS, LLC  
008 B000001 A  
008 C000001 801-46991  
008 D010001 HOUSTON  
008 D020001 TX  
008 D030001 77002  
010 A000001 ULTIMUS FUND SOLUTIONS LLC  
010 B000001 84-5829  
010 C010001 CINCINNATI  
010 C020001 OH  
010 C030001 45246  
011 A000001 CITIGROUP GLOBAL MARKETS INC.  
011 B000001 8-02800541  
011 C010001 NEW YORK  
011 C020001 NY  
011 C030001 10022  
011 A000002 UBS SECURITIES LLC  
011 B000002 8-0280736  
011 C010002 STAMFORD  
011 C020002 CT  
011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS CORPORATION  
011 B000003 8-01672  
011 C010003 NEW YORK  
011 C020003 NY  
011 C030003 10006  
011 A000004 DEUTSCHE BANK SECURITIES INC.

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011 B000004 8-00017822  
011 C010004 NEW YORK  
011 C020004 NY  
011 C030004 10005  
011 A000005 SANDERS MORRIS HARRIS INC.  
011 B000005 8-00038325  
011 C010005 HOUSTON  
011 C020005 TX  
011 C030005 77002  
011 A000006 A.G. EDWARDS & SONS, INC.  
011 B000006 8-02803548  
011 C010006 ST LOUIS  
011 C020006 MO  
011 C030006 63103  
011 A000007 ADVEST, INC.  
011 B000007 8-02804159  
011 C010007 HARTFORD  
011 C020007 CT  
011 C030007 06103  
011 A000008 LEGG MASON WOOD WALKER, INCORPORATED  
011 B000008 8-00015939  
011 C010008 BALTIMORE  
011 C020008 MD  
011 C030008 21202  
011 A000009 OPPENHEIMER & CO. INC.  
011 B000009 8-00004077  
011 C010009 NEW YORK  
011 C020009 NY  
011 C030009 10004  
011 A000010 FERRIS, BAKER WATT, INCORPORATED  
011 B000010 8-00016427  
011 C010010 WASHINGTON  
011 C020010 DC  
011 C030010 20006  
011 A000011 MORGAN KEEGAN & COMPANY, INC.  
011 B000011 8-00015001  
011 C010011 MEMPHIS  
011 C020011 TN  
011 C030011 38103  
011 A000012 ROBERT W. BAIRD & CO. INCORPORATED  
011 B000012 8-02801911  
011 C010012 MILWAUKEE  
011 C020012 WI  
011 C030012 53201  
011 A000013 WEDBUSH MORGAN SECURITIES INC.  
011 B000013 8-00012987  
011 C010013 LOS ANGELES  
011 C020013 CA  
011 C030013 90017  
012 A000001 AMERICAN STOCK TRANSFER & TRUST COMPANY  
012 B000001 84-0041600  
012 C010001 NEW YORK  
012 C020001 NY  
012 C030001 10038  
013 A000001 PRICEWATERHOUSECOOPERS LLP  
013 B010001 LOS ANGELES  
013 B020001 CA  
013 B030001 90071  
014 A000001 KA ASSOCIATES, INC.  
014 B000001 8-45640000  
015 A000001 J.P. MORGAN CHASE BANK, N.A.  
015 B000001 C

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015 C010001 DALLAS  
015 C020001 TX  
015 C030001 75254  
015 E010001 X  
018 000000 Y  
019 A000000 Y  
019 B000000 3  
019 C000000 KAYNEANDER  
020 A000001 GOLDMAN, SACHS & CO.  
020 B000001 13-5108880  
020 C000001 221  
020 A000002 J.P. MORGAN SECURITIES, INC.  
020 B000002 13-3379014  
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020 A000003 RBC DOMINION SECURITIES, INC.  
020 C000003 70  
020 A000004 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
020 B000004 13-5674085  
020 C000004 66  
020 A000005 MORGAN STANLEY & CO., INC.  
020 B000005 13-2655998  
020 C000005 55  
020 A000006 JEFFERIES & CO., INC.  
020 B000006 95-2622900  
020 C000006 23  
020 A000007 FRIEDMAN, BILLINGS, RAMSEY & CO., INC.  
020 B000007 52-1630477  
020 C000007 16  
020 A000008 UBS WARBURG LLC  
020 B000008 13-3873456  
020 C000008 14  
020 A000009 FIDELITY BROKERAGE SERVICES LLC  
020 B000009 04-3523439  
020 C000009 10  
020 A000010 BTIG, LLC  
020 C000010 9  
021 000000 618  
022 A000001 J.P. MORGAN SECURITIES, INC.  
022 B000001 13-3379014  
022 C000001 180767  
022 D000001 165216  
022 A000002 MORGAN STANLEY & CO., INC.  
022 B000002 13-2655998  
022 C000002 5768  
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022 A000003 JEFFERIES & CO., INC.  
022 B000003 95-2622900  
022 C000003 5133  
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022 A000004 BARCLAYS CAPITAL, INC.  
022 B000004 06-1031656  
022 C000004 3211  
022 D000004 0  
022 A000005 BANC OF AMERICA SECURITIES LLC  
022 B000005 56-2058405  
022 C000005 2625  
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022 A000006 GOLDMAN, SACHS & CO.  
022 B000006 13-5108880  
022 C000006 778  
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022 C000007 0

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054	L000000	N
054	M000000	Y
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054	O000000	N
055	A000000	N

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070	K010000	Y	
070	K020000	N	
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070	L020000	N	
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070	M020000	N	
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072DD	010000		0
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074	F000000		1071023
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074	I000000	1065
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087	A010000	KAYNE ANDERSON MLP INVESTMENT COMPANY
087	A020000	486606106
087	A030000	KYN
088	A000000	Y
088	B000000	N
088	C000000	N
088	D000000	Y
SIGNATURE	TERRY A. HART	
TITLE	CFO	