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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
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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
020 C000002 95
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
022 D000002 0
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	D000000	N
054	E000000	N
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054	I000000	N
054	J000000	Y
054	K000000	N
054	L000000	N
054	M000000	Y
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054	O000000	N
055	A000000	N

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055 B000000 N
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070	L020000	N	
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070	M020000	N	
070	N010000	Y	
070	N020000	N	
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070	O020000	N	
070	P010000	N	
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070	Q020000	N	
070	R010000	Y	
070	R020000	N	
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072	G000000		251
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072	J000000		86
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072	L000000		135
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072	P000000		9123
072	Q000000		71
072	R000000		357
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072	V000000		0
072	W000000		728
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072	Y000000		0
072	Z000000		-7185
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074	D000000		32634
074	E000000		0
074	F000000		1071023
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074	H000000		0

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074	I000000	1065
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074	K000000	0
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074	R020000	0
074	R030000	910
074	R040000	313083
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074	T000000	763654
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074	U020000	0
074	V010000	17.04
074	V020000	0.00
074	W000000	0.0000
074	X000000	33
074	Y000000	18274
075	A000000	0
075	B000000	657592
076	000000	21.00
077	A000000	N
078	000000	N
086	A010000	631
086	A020000	10776
086	B010000	0
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086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0
086	E020000	0
086	F010000	0
086	F020000	0
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	