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Kayne Anderson MLP Investment CO

Form NSAR-B

January 29, 2010

000 B000000 11/30/2009
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 MORGAN STANLEY & CO., INCORPORATED

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011 B000004 8-15869822
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10036
011 A000005 SANDERS MORRIS HARRIS INC.
011 B000005 8-00038325
011 C010005 HOUSTON
011 C020005 TX
011 C030005 77002
011 A000006 STIFEL, NICOLAUS & CO., INCORPORATED
011 B000006 8-1447
011 C010006 ST LOUIS
011 C020006 MO
011 C030006 63102
011 A000007 WUNDERLICH SECURITIES, INC.
011 B000007 8-31206
011 C010007 MEMPHIS
011 C020007 TN
011 C030007 38119
012 A000001 AMERICAN STOCK TRANSFER & TRUST COMPANY
012 B000001 84-00416
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 8-45640
015 A000001 JPMORGAN CHASE BANK, N.A.
015 B000001 C
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 312
020 A000002 J.P. MORGAN SECURITIES
020 B000002 13-3299429
020 C000002 148
020 A000003 RBC DOMINION SECURITIES, INC.
020 C000003 144
020 A000004 MORGAN STANLEY & CO., INC.
020 B000004 13-2655998
020 C000004 142
020 A000005 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC
020 B000005 13-5674085
020 C000005 113
020 A000006 BARCLAYS CAPITAL, INC.
020 B000006 06-1031656
020 C000006 108
020 A000007 JEFFERIES & CO., INC.
020 B000007 95-2622900
020 C000007 35
020 A000008 FIDELITY BROKERAGE SERVICES LLC
020 B000008 04-3523439

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020 C000008 32
 020 A000009 UBS WARBURG LLC
 020 B000009 13-3873456
 020 C000009 24
 020 A000010 WACHOVIA SECURITIES, LLC
 020 B000010 34-1542819
 020 C000010 20
 021 000000 1199
 022 A000001 J.P. MORGAN SECURITIES, INC.
 022 B000001 13-3299429
 022 C000001 550033
 022 D000001 783153
 022 A000002 WACHOVIA SECURITIES, LLC
 022 B000002 34-1542819
 022 C000002 5642
 022 D000002 8551
 022 A000003 UBS SECURITIES
 022 B000003 13-3873456
 022 C000003 8061
 022 D000003 4229
 022 A000004 BARCLAYS CAPITAL, INC.
 022 B000004 06-1031656
 022 C000004 10241
 022 D000004 1030
 022 A000005 MORGAN STANLEY & CO., INC.
 022 B000005 13-2655998
 022 C000005 9124
 022 D000005 0
 022 A000006 JEFFERIES & CO., INC.
 022 B000006 95-2622900
 022 C000006 5628
 022 D000006 2090
 022 A000007 CITIGROUP GLOBAL MARKETS, INC.
 022 B000007 11-2418191
 022 C000007 4382
 022 D000007 2745
 022 A000008 BANC OF AMERICA SECURITIES LLC
 022 B000008 56-2058405
 022 C000008 2625
 022 D000008 4091
 022 A000009 RBC DOMINION SECURITIES, INC.
 022 C000009 5288
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 022 A000010 CANTOR FITZGERALD & CO.
 022 B000010 13-3680184
 022 C000010 0
 022 D000010 1830
 023 C000000 602783
 023 D000000 807719
 024 000000 N
 026 A000000 N
 026 B000000 Y
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 026 D000000 Y
 026 E000000 N
 026 F000000 N
 026 G010000 N
 026 G020000 N
 026 H000000 N
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 046 000000 N

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070	G020000	N	
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070	H020000	N	
070	I010000	N	
070	I020000	N	
070	J010000	Y	

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070	J020000	Y	
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070	K020000	N	
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070	R020000	N	
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072	V000000		0
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072	X000000		29772
072	Y000000		0
072	Z000000		-15388
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074	B000000		6340
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074	D000000		30973

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074	G000000	14
074	H000000	0
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078	000000	N
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080	C000000	1700
081	A000000	N
082	A000000	N
083	A000000	N
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086	A020000	142038
086	B010000	0
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086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0

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086 E010000 110000
086 E020000 110000
086 F010000 44000
086 F020000 44000
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