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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  
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007 C010100 1  
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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  
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 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  
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 022 A000005 MORGAN STANLEY & CO., INC.  
 022 B000005 13-2655998  
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 022 A000006 JEFFERIES & CO., INC.  
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 022 A000007 CITIGROUP GLOBAL MARKETS, INC.  
 022 B000007 11-2418191  
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 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  
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 022 D000010 1830  
 023 C000000 602783  
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 024 000000 N  
 026 A000000 N  
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 026 E000000 N  
 026 F000000 N  
 026 G010000 N  
 026 G020000 N  
 026 H000000 N  
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070	H020000	N	
070	I010000	N	
070	I020000	N	
070	J010000	Y	

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072	X000000		29772
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086	C010000	0
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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