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Kayne Anderson MLP Investment CO  
Form NSAR-B  
January 30, 2012

000 B000000 11/30/2011  
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  
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007 A000000 N  
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007 C010100 1  
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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 801-67089  
008 D010001 HOUSTON  
008 D020001 TX  
008 D030001 77002  
010 A000001 ULTIMUS FUND SOLUTIONS, LLC  
010 B000001 84-58290  
010 C010001 CINCINNATI  
010 C020001 OH  
010 C030001 45246  
011 A000001 CITIGROUP GLOBAL MARKETS INC.  
011 B000001 8-8177  
011 C010001 NEW YORK  
011 C020001 NY  
011 C030001 10013  
011 A000002 UBS SECURITIES LLC  
011 B000002 8-22651  
011 C010002 STAMFORD  
011 C020002 CT  
011 C030002 06901  
011 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
011 B000003 8-7221  
011 C010003 NEW YORK  
011 C020003 NY  
011 C030003 10036  
011 A000004 MORGAN STANLEY & CO. INCORPORATED

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011 B000004 8-15869  
011 C010004 NEW YORK  
011 C020004 NY  
011 C030004 10036  
011 A000005 RBC CAPITAL MARKETS CORPORATION  
011 B000005 8-1672  
011 C010005 NY  
011 C020005 NY  
011 C030005 10006  
011 A000006 STIFEL, NICOLAUS & COMPANY, INCORPORATED  
011 B000006 8-1447  
011 C010006 ST. LOUIS  
011 C020006 MO  
011 C030006 63102  
011 A000007 ROBERT W. BAIRD & CO. INCORPORATED  
011 B000007 8-497  
011 C010007 MILWAUKEE  
011 C020007 WI  
011 C030007 53202  
011 A000008 MADISON WILLIAMS AND COMPANY LLC  
011 B000008 8-68150  
011 C010008 NY  
011 C020008 NY  
011 C030008 10022  
011 A000009 WUNDERLICH SECURITIES  
011 B000009 8-31206  
011 C010009 MEMPHIS  
011 C020009 TN  
011 C030009 38119  
011 A000010 WELLS FARGO SECURITIES, LLC  
011 B000010 8-65876  
011 C010010 CHARLOTTE  
011 C020010 NC  
011 C030010 28262  
012 A000001 AMERICAN STOCK TRANSFER & TRUST CO., LLC  
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 4  
019 C000000 KAYNEANDER  
020 A000001 GOLDMAN, SACHS & CO,  
020 B000001 13-5108880  
020 C000001 98  
020 A000002 RBC DOMINION SECURITIES, INC.  
020 C000002 77  
020 A000003 CREDIT SUISSE SECURITIES (USA) LLC  
020 B000003 05-0546650

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020 C000003 75  
020 A000004 BANC OF AMERICA SECURITIES LLC  
020 B000004 56-2058405  
020 C000004 71  
020 A000005 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
020 B000005 13-5674085  
020 C000005 69  
020 A000006 JEFFERIES & CO., INC.  
020 B000006 95-2622900  
020 C000006 55  
020 A000007 MORGAN STANLEY & CO. LLC  
020 B000007 13-2655998  
020 C000007 50  
020 A000008 CITIGROUP GLOBAL MARKETS, INC.  
020 B000008 11-2418191  
020 C000008 48  
020 A000009 WELLS FARGO BROKERAGE SERVICES LLC  
020 B000009 41-1508325  
020 C000009 45  
020 A000010 CANTOR FITZGERALD & CO.  
020 B000010 13-3680184  
020 C000010 39  
021 000000 820  
022 A000001 J.P. MORGAN SECURITIES  
022 B000001 13-3299429  
022 C000001 1762702  
022 D000001 2368136  
022 A000002 WELLS FARGO BROKERAGE SERVICES LLC  
022 B000002 41-1508325  
022 C000002 77073  
022 D000002 47050  
022 A000003 BARCLAYS CAPITAL INC.  
022 B000003 06-1031656  
022 C000003 27975  
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022 A000004 BANK OF AMERICA SECURITIES LLC  
022 B000004 56-2058405  
022 C000004 22232  
022 D000004 16775  
022 A000005 MORGAN STANLEY & CO, LLC  
022 B000005 13-2655998  
022 C000005 36732  
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022 A000006 CITIGROUP GLOBAL MARKETS, INC.  
022 B000006 11-2418191  
022 C000006 31363  
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022 A000007 UBS SECURITIES, INC.  
022 B000007 13-3873456  
022 C000007 15011  
022 D000007 6418  
022 A000008 GOLDMAN, SACHS & CO.  
022 B000008 13-5108880  
022 C000008 16002  
022 D000008 4090  
022 A000009 CREDIT SUISSE SECURITIES (USA) LLC  
022 B000009 05-0546650  
022 C000009 4644  
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022 A000010 RBC DOMINION SECURITIES, INC.  
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022 D000010 5356

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SIGNATURE TERRY A. HART  
TITLE CFO