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Kayne Anderson MLP Investment CO

Form NSAR-B

January 31, 2011

000 B000000 11/30/2010  
000 C000000 0001293613  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 U  
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 801-67089  
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 8-8177  
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 DELETE  
011 A000011 DELETE  
011 A000012 DELETE  
011 A000013 DELETE  
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 131  
020 A000002 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
020 B000002 13-5674085  
020 C000002 125  
020 A000003 MORGAN STANLEY & CO. INCORPORATED  
020 B000003 13-2655998

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020 C000003 109  
020 A000004 UBS SECURITIES LLC  
020 B000004 13-3873456  
020 C000004 105  
020 A000005 CREDIT SUISSE SECURITITES (USA) LLC  
020 B000005 05-0546650  
020 C000005 95  
020 A000006 RBC CAPITAL NARKETS CORPORATION  
020 B000006 13-5033225  
020 C000006 87  
020 A000007 J.P. MORGAN SECURITIES INC.  
020 B000007 13-3299429  
020 C000007 70  
020 A000008 JEFFERIES & COMPANY, INC.  
020 B000008 95-2622900  
020 C000008 65  
020 A000009 BARCLAYS CAPITAL INC.  
020 B000009 06-1031656  
020 C000009 48  
020 A000010 MORGAN KEEGAN & COMPANY, INC.  
020 B000010 64-0474907  
020 C000010 45  
021 000000 1100  
022 A000001 J.P. MORGAN SECURITIES INC.  
022 B000001 13-3299429  
022 C000001 1695796  
022 D000001 2324686  
022 A000002 BANC OF AMERICA SECURITIES LLC  
022 B000002 56-2058405  
022 C000002 44708  
022 D000002 14499  
022 A000003 BARCLAYS CAPITAL INC.  
022 B000003 06-1031656  
022 C000003 50700  
022 D000003 0  
022 A000004 MORGAN STANLEY & CO. INCORPORATED  
022 B000004 13-2655998  
022 C000004 40097  
022 D000004 0  
022 A000005 CITIGROUP GLOBAL MARKETS INC.  
022 B000005 11-2418191  
022 C000005 24003  
022 D000005 0  
022 A000006 UBS SECURITIES LLC  
022 B000006 13-3873456  
022 C000006 11729  
022 D000006 9783  
022 A000007 WACHOVIA SECURITIES, LLC  
022 B000007 34-1542819  
022 C000007 14028  
022 D000007 3360  
022 A000008 CREDIT SUISSE SECURITIES (USA) LLC  
022 B000008 05-0546650  
022 C000008 10500  
022 D000008 2993  
022 A000009 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
022 B000009 13-5674085  
022 C000009 12203  
022 D000009 0  
022 A000010 GOLDMAN, SACHS & CO.  
022 B000010 13-5108880  
022 C000010 2468

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|     |         |                             |
|-----|---------|-----------------------------|
| 022 | D000010 | 0                           |
| 023 | C000000 | 1909854                     |
| 023 | D000000 | 2359834                     |
| 024 | 000000  | Y                           |
| 025 | A000001 | J.P. MORGAN SECURITIES INC. |
| 025 | B000001 | 13-3299429                  |
| 025 | C000001 | D                           |
| 025 | D000001 | 16320                       |
| 025 | D000002 | 0                           |
| 025 | D000003 | 0                           |
| 025 | D000004 | 0                           |
| 025 | D000005 | 0                           |
| 025 | D000006 | 0                           |
| 025 | D000007 | 0                           |
| 025 | D000008 | 0                           |
| 026 | A000000 | N                           |
| 026 | B000000 | Y                           |
| 026 | C000000 | N                           |
| 026 | D000000 | Y                           |
| 026 | E000000 | N                           |
| 026 | F000000 | N                           |
| 026 | G010000 | N                           |
| 026 | G020000 | N                           |
| 026 | H000000 | N                           |
| 027 | 000000  | N                           |
| 028 | A010000 | 0                           |
| 028 | A020000 | 0                           |
| 028 | A030000 | 0                           |
| 028 | A040000 | 0                           |
| 028 | B010000 | 0                           |
| 028 | B020000 | 0                           |
| 028 | B030000 | 0                           |
| 028 | B040000 | 0                           |
| 028 | C010000 | 0                           |
| 028 | C020000 | 0                           |
| 028 | C030000 | 0                           |
| 028 | C040000 | 0                           |
| 028 | D010000 | 0                           |
| 028 | D020000 | 0                           |
| 028 | D030000 | 0                           |
| 028 | D040000 | 0                           |
| 028 | E010000 | 0                           |
| 028 | E020000 | 0                           |
| 028 | E030000 | 0                           |
| 028 | E040000 | 0                           |
| 028 | F010000 | 0                           |
| 028 | F020000 | 0                           |
| 028 | F030000 | 0                           |
| 028 | F040000 | 0                           |
| 028 | G010000 | 0                           |
| 028 | G020000 | 0                           |
| 028 | G030000 | 0                           |
| 028 | G040000 | 0                           |
| 028 | H000000 | 0                           |
| 030 | A000000 | 0                           |
| 030 | B000000 | 0.00                        |
| 030 | C000000 | 0.00                        |
| 031 | A000000 | 0                           |
| 031 | B000000 | 0                           |
| 032 | 000000  | 0                           |
| 033 | 000000  | 0                           |
| 035 | 000000  | 0                           |

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|     |         |       |
|-----|---------|-------|
| 036 | B000000 | 0     |
| 038 | 000000  | 0     |
| 042 | A000000 | 0     |
| 042 | B000000 | 0     |
| 042 | C000000 | 0     |
| 042 | D000000 | 0     |
| 042 | E000000 | 0     |
| 042 | F000000 | 0     |
| 042 | G000000 | 0     |
| 042 | H000000 | 0     |
| 043 | 000000  | 0     |
| 044 | 000000  | 0     |
| 045 | 000000  | Y     |
| 046 | 000000  | N     |
| 047 | 000000  | Y     |
| 048 | 000000  | 1.375 |
| 048 | A010000 | 0     |
| 048 | A020000 | 0.000 |
| 048 | B010000 | 0     |
| 048 | B020000 | 0.000 |
| 048 | C010000 | 0     |
| 048 | C020000 | 0.000 |
| 048 | D010000 | 0     |
| 048 | D020000 | 0.000 |
| 048 | E010000 | 0     |
| 048 | E020000 | 0.000 |
| 048 | F010000 | 0     |
| 048 | F020000 | 0.000 |
| 048 | G010000 | 0     |
| 048 | G020000 | 0.000 |
| 048 | H010000 | 0     |
| 048 | H020000 | 0.000 |
| 048 | I010000 | 0     |
| 048 | I020000 | 0.000 |
| 048 | J010000 | 0     |
| 048 | J020000 | 0.000 |
| 048 | K010000 | 0     |
| 048 | K020000 | 0.000 |
| 049 | 000000  | N     |
| 050 | 000000  | N     |
| 051 | 000000  | N     |
| 052 | 000000  | N     |
| 053 | A000000 | N     |
| 054 | A000000 | Y     |
| 054 | B000000 | Y     |
| 054 | C000000 | Y     |
| 054 | D000000 | N     |
| 054 | E000000 | N     |
| 054 | F000000 | N     |
| 054 | G000000 | Y     |
| 054 | H000000 | Y     |
| 054 | I000000 | N     |
| 054 | J000000 | Y     |
| 054 | K000000 | N     |
| 054 | L000000 | N     |
| 054 | M000000 | Y     |
| 054 | N000000 | N     |
| 054 | O000000 | N     |
| 055 | A000000 | N     |
| 055 | B000000 | Y     |
| 056 | 000000  | Y     |
| 057 | 000000  | N     |

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|     |         |   |     |
|-----|---------|---|-----|
| 058 | A000000 | N |     |
| 059 | 000000  | Y |     |
| 060 | A000000 | N |     |
| 060 | B000000 | N |     |
| 061 | 000000  |   | 0   |
| 062 | A000000 | N |     |
| 062 | B000000 |   | 0.0 |
| 062 | C000000 |   | 0.0 |
| 062 | D000000 |   | 0.0 |
| 062 | E000000 |   | 0.0 |
| 062 | F000000 |   | 0.0 |
| 062 | G000000 |   | 0.0 |
| 062 | H000000 |   | 0.0 |
| 062 | I000000 |   | 0.0 |
| 062 | J000000 |   | 0.0 |
| 062 | K000000 |   | 0.0 |
| 062 | L000000 |   | 0.0 |
| 062 | M000000 |   | 0.0 |
| 062 | N000000 |   | 0.0 |
| 062 | O000000 |   | 0.0 |
| 062 | P000000 |   | 0.0 |
| 062 | Q000000 |   | 0.0 |
| 062 | R000000 |   | 0.0 |
| 063 | A000000 |   | 0   |
| 063 | B000000 |   | 0.0 |
| 066 | A000000 | Y |     |
| 066 | B000000 | N |     |
| 066 | C000000 | N |     |
| 066 | D000000 | N |     |
| 066 | E000000 | N |     |
| 066 | F000000 | N |     |
| 066 | G000000 | Y |     |
| 067 | 000000  | N |     |
| 068 | A000000 | N |     |
| 068 | B000000 | N |     |
| 069 | 000000  | N |     |
| 070 | A010000 | Y |     |
| 070 | A020000 | Y |     |
| 070 | B010000 | Y |     |
| 070 | B020000 | Y |     |
| 070 | C010000 | Y |     |
| 070 | C020000 | N |     |
| 070 | D010000 | Y |     |
| 070 | D020000 | N |     |
| 070 | E010000 | Y |     |
| 070 | E020000 | N |     |
| 070 | F010000 | Y |     |
| 070 | F020000 | N |     |
| 070 | G010000 | Y |     |
| 070 | G020000 | N |     |
| 070 | H010000 | Y |     |
| 070 | H020000 | N |     |
| 070 | I010000 | N |     |
| 070 | I020000 | N |     |
| 070 | J010000 | Y |     |
| 070 | J020000 | Y |     |
| 070 | K010000 | Y |     |
| 070 | K020000 | N |     |
| 070 | L010000 | Y |     |
| 070 | L020000 | N |     |
| 070 | M010000 | N |     |
| 070 | M020000 | N |     |

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|       |         |         |         |
|-------|---------|---------|---------|
| 070   | N010000 | Y       |         |
| 070   | N020000 | N       |         |
| 070   | O010000 | Y       |         |
| 070   | O020000 | Y       |         |
| 070   | P010000 | N       |         |
| 070   | P020000 | N       |         |
| 070   | Q010000 | Y       |         |
| 070   | Q020000 | N       |         |
| 070   | R010000 | Y       |         |
| 070   | R020000 | N       |         |
| 071   | A000000 |         | 1117089 |
| 071   | B000000 |         | 414822  |
| 071   | C000000 |         | 2219428 |
| 071   | D000000 |         | 19      |
| 072   | A000000 | 12      |         |
| 072   | B000000 |         | 4189    |
| 072   | C000000 |         | 14908   |
| 072   | D000000 |         | 0       |
| 072   | E000000 |         | 0       |
| 072   | F000000 |         | 30104   |
| 072   | G000000 |         | 948     |
| 072   | H000000 |         | 0       |
| 072   | I000000 |         | 17      |
| 072   | J000000 |         | 279     |
| 072   | K000000 |         | 0       |
| 072   | L000000 |         | 286     |
| 072   | M000000 |         | 224     |
| 072   | N000000 |         | 65      |
| 072   | O000000 |         | -15585  |
| 072   | P000000 |         | 23789   |
| 072   | Q000000 |         | 212     |
| 072   | R000000 |         | 393     |
| 072   | S000000 |         | 297     |
| 072   | T000000 |         | 0       |
| 072   | U000000 |         | 0       |
| 072   | V000000 |         | 0       |
| 072   | W000000 |         | 4410    |
| 072   | X000000 |         | 45439   |
| 072   | Y000000 |         | 0       |
| 072   | Z000000 |         | -26342  |
| 072AA | 000000  |         | 34340   |
| 072BB | 000000  |         | 0       |
| 072CC | 010000  |         | 487184  |
| 072CC | 020000  |         | 0       |
| 072DD | 010000  |         | 49829   |
| 072DD | 020000  |         | 0       |
| 072EE | 000000  |         | 0       |
| 073   | A010000 |         | 0.8383  |
| 073   | A020000 |         | 0.0000  |
| 073   | B000000 |         | 0.0000  |
| 073   | C000000 |         | 1.0817  |
| 074   | A000000 |         | 545     |
| 074   | B000000 |         | 16320   |
| 074   | C000000 |         | 0       |
| 074   | D000000 |         | 90405   |
| 074   | E000000 |         | 0       |
| 074   | F000000 | 2907520 |         |
| 074   | G000000 |         | 0       |
| 074   | H000000 |         | 0       |
| 074   | I000000 |         | 1081    |
| 074   | J000000 |         | 900     |
| 074   | K000000 |         | 0       |

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|           |               |                                       |
|-----------|---------------|---------------------------------------|
| 074       | L000000       | 1785                                  |
| 074       | M000000       | 7080                                  |
| 074       | N000000       | 3025636                               |
| 074       | O000000       | 5644                                  |
| 074       | P000000       | 9365                                  |
| 074       | Q000000       | 620000                                |
| 074       | R010000       | 0                                     |
| 074       | R020000       | 0                                     |
| 074       | R030000       | 822                                   |
| 074       | R040000       | 563914                                |
| 074       | S000000       | 0                                     |
| 074       | T000000       | 1825891                               |
| 074       | U010000       | 68471                                 |
| 074       | U020000       | 0                                     |
| 074       | V010000       | 26.67                                 |
| 074       | V020000       | 0.00                                  |
| 074       | W000000       | 0.0000                                |
| 074       | X000000       | 41                                    |
| 074       | Y000000       | 54796                                 |
| 075       | A000000       | 0                                     |
| 075       | B000000       | 1432266                               |
| 076       | 000000        | 28.49                                 |
| 077       | A000000       | Y                                     |
| 077       | B000000       | Y                                     |
| 077       | C000000       | Y                                     |
| 077       | I000000       | Y                                     |
| 077       | Q010000       | Y                                     |
| 080       | A000000       | FEDERAL INSURANCE COMPANY             |
| 080       | C000000       | 1900                                  |
| 081       | A000000       | N                                     |
| 081       | B000000       | 0                                     |
| 082       | A000000       | N                                     |
| 082       | B000000       | 0                                     |
| 083       | A000000       | N                                     |
| 083       | B000000       | 0                                     |
| 084       | A000000       | N                                     |
| 084       | B000000       | 0                                     |
| 085       | A000000       | Y                                     |
| 085       | B000000       | N                                     |
| 086       | A010000       | 16892                                 |
| 086       | A020000       | 406731                                |
| 086       | B010000       | 0                                     |
| 086       | B020000       | 0                                     |
| 086       | C010000       | 6400                                  |
| 086       | C020000       | 160000                                |
| 086       | D010000       | 3000                                  |
| 086       | D020000       | 75000                                 |
| 086       | E010000       | 250000                                |
| 086       | E020000       | 250000                                |
| 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           |                                       |