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Kayne Anderson MLP Investment CO

Form NSAR-A

July 30, 2010

000 A000000 05/31/2010
000 C000000 0001293613
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 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
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 10022
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 8-72211
011 C010003 NEW YORK
011 C020003 NY
011 C030003 10036
011 A000004 MORGAN STANLEY & CO. INCORPORATED
011 B000004 8-15869
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10036
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

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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 UBS SECURITIES INC.
020 B000001 13-3873456
020 C000001 94
020 A000002 GOLDMAN, SACHS & CO.
020 B000002 13-5108880
020 C000002 88
020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
020 B000003 13-5674085
020 C000003 61
020 A000004 RBC CAPITAL MARKETS CORPORATION
020 B000004 13-5033225
020 C000004 60
020 A000005 MORGAN STANLEY & CO. INCORPORATED
020 B000005 13-2655998
020 C000005 59
020 A000006 J.P. MORGAN SECURITIES INC.
020 B000006 13-3299429
020 C000006 42
020 A000007 WELLS FARGO ADVISORS, LLC
020 B000007 34-1542819
020 C000007 31
020 A000008 JEFFERIES & COMPANY, INC.
020 B000008 95-2622900
020 C000008 25
020 A000009 BARCLAYS CAPITAL INC.
020 B000009 06-1031656
020 C000009 23
020 A000010 MORGAN KEEGAN & COMPANY, INC.
020 B000010 64-0474907
020 C000010 22
021 000000 575
022 A000001 J.P. MORGAN SECURITIES INC.
022 B000001 13-3299429
022 C000001 800763
022 D000001 1121111
022 A000002 BANC OF AMERICA SECURITIES LLC
022 B000002 56-2058405
022 C000002 21546
022 D000002 14499
022 A000003 UBS SECURITIES LLC
022 B000003 13-3873456
022 C000003 8638
022 D000003 8883
022 A000004 BARCLAYS CAPITAL INC.
022 B000004 06-1031656
022 C000004 6899
022 D000004 0

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022 A000005 MORGAN STANLEY & CO. INCORPORATED
022 B000005 13-2655998
022 C000005 6711
022 D000005 1
022 A000006 WELLS FARGO ADVISORS, LLC
022 B000006 34-1542819
022 C000006 1701
022 D000006 3360
022 A000007 GOLDMAN, SACHS & CO.
022 B000007 13-5108880
022 C000007 2468
022 D000007 0
022 A000008 CITIGROUP GLOBAL MARKETS INC.
022 B000008 11-2418191
022 C000008 2448
022 D000008 0
022 A000009 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
022 B000009 13-5674085
022 C000009 2314
022 D000009 0
022 A000010 CREDIT AGRICOLE CHEUVREUX NORTH AMERICA, INC.
022 B000010 13-3867844
022 C000010 1105
022 D000010 0
023 C000000 854868
023 D000000 1147854
024 000000 Y
025 A000001 J.P. MORGAN SECURITIES INC.
025 B000001 13-3299429
025 C000001 D
025 D000001 26983
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
045 000000 Y
046 000000 N
047 000000 Y
048 000000 1.375
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

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| | | | |
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| 054 | N000000 | N | |
| 054 | O000000 | N | |
| 055 | A000000 | N | |
| 055 | B000000 | Y | |
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| 057 | 000000 | N | |
| 058 | A000000 | N | |
| 059 | 000000 | Y | |
| 060 | A000000 | N | |
| 060 | B000000 | N | |
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| 062 | A000000 | N | |
| 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 | |
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| 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 | |
| 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 | | 415335 |
| 071 | B000000 | | 154171 |

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| | |
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| 071 C000000 | 1898655 |
| 071 D000000 | 8 |
| 072 A000000 | 6 |
| 072 B000000 | 1801 |
| 072 C000000 | 7485 |
| 072 D000000 | 0 |
| 072 E000000 | 0 |
| 072 F000000 | 12916 |
| 072 G000000 | 431 |
| 072 H000000 | 0 |
| 072 I000000 | 7 |
| 072 J000000 | 124 |
| 072 K000000 | 0 |
| 072 L000000 | 90 |
| 072 M000000 | 100 |
| 072 N000000 | 42 |
| 072 O000000 | -5999 |
| 072 P000000 | 10949 |
| 072 Q000000 | 101 |
| 072 R000000 | 199 |
| 072 S000000 | 196 |
| 072 T000000 | 0 |
| 072 U000000 | 0 |
| 072 V000000 | 0 |
| 072 W000000 | 784 |
| 072 X000000 | 19940 |
| 072 Y000000 | 0 |
| 072 Z000000 | -10654 |
| 072AA000000 | 19625 |
| 072BB000000 | 0 |
| 072CC010000 | 129452 |
| 072CC020000 | 0 |
| 072DD010000 | 8794 |
| 072DD020000 | 0 |
| 072EE000000 | 0 |
| 073 A010000 | 0.1603 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.7997 |
| 074 A000000 | 0 |
| 074 B000000 | 26983 |
| 074 C000000 | 0 |
| 074 D000000 | 40910 |
| 074 E000000 | 0 |
| 074 F000000 | 1989556 |
| 074 G000000 | 0 |
| 074 H000000 | 0 |
| 074 I000000 | 1705 |
| 074 J000000 | 2815 |
| 074 K000000 | 0 |
| 074 L000000 | 1097 |
| 074 M000000 | 4799 |
| 074 N000000 | 2067865 |
| 074 O000000 | 2987 |
| 074 P000000 | 6929 |
| 074 Q000000 | 480000 |
| 074 R010000 | 0 |
| 074 R020000 | 0 |
| 074 R030000 | 646 |
| 074 R040000 | 299283 |
| 074 S000000 | 0 |
| 074 T000000 | 1278020 |

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| 074 | U010000 | 58355 |
| 074 | U020000 | 0 |
| 074 | V010000 | 21.90 |
| 074 | V020000 | 0.00 |
| 074 | W000000 | 0.0000 |
| 074 | X000000 | 34 |
| 074 | Y000000 | 8507 |
| 075 | A000000 | 0 |
| 075 | B000000 | 1225646 |
| 076 | 000000 | 25.25 |
| 077 | A000000 | N |
| 078 | 000000 | N |
| 086 | A010000 | 6776 |
| 086 | A020000 | 154152 |
| 086 | B010000 | 0 |
| 086 | B020000 | 0 |
| 086 | C010000 | 4400 |
| 086 | C020000 | 110000 |
| 086 | D010000 | 75000 |
| 086 | D020000 | 75000 |
| 086 | E010000 | 110000 |
| 086 | E020000 | 110000 |
| 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 | |