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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  
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006 000000 N  
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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  
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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  
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022 A000006 WELLS FARGO ADVISORS, LLC  
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022 B000008 11-2418191  
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022 B000009 13-5674085  
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022 A000010 CREDIT AGRICOLE CHEUVREUX NORTH AMERICA, INC.  
022 B000010 13-3867844  
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023 C000000 854868  
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025 A000001 J.P. MORGAN SECURITIES INC.  
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070	R020000	N	
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071	B000000		154171

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072 W000000	784
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072 Z000000	-10654
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074 J000000	2815
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074 L000000	1097
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074 O000000	2987
074 P000000	6929
074 Q000000	480000
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074 R020000	0
074 R030000	646
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074 S000000	0
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086	F010000	0
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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	