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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
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 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
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 026 D000000 Y
 026 E000000 N
 026 F000000 N
 026 G010000 N
 026 G020000 N
 026 H000000 N
 027 000000 N
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 054 A000000 Y
 054 B000000 Y
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 054 I000000 N
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 054 L000000 N

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066	D000000	N	
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066	G000000	Y	
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070	Q010000	Y	
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070	R010000	Y	
070	R020000	N	
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071	B000000		154171

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071	C000000	1898655
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072	A000000	6
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072	J000000	124
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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
072AA	000000	19625
072BB	000000	0
072CC0	10000	129452
072CC0	20000	0
072DD0	10000	8794
072DD0	20000	0
072EE	000000	0
073	A010000	0.1603
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073	B000000	0.0000
073	C000000	0.7997
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074	B000000	26983
074	C000000	0
074	D000000	40910
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074	F000000	1989556
074	G000000	0
074	H000000	0
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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
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074	V010000	21.90
074	V020000	0.00
074	W000000	0.0000
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074	Y000000	8507
075	A000000	0
075	B000000	1225646
076	000000	25.25
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078	000000	N
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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	