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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 SECURITIES (USA) LLC
020 B000005 05-0546650
020 C000005 95
020 A000006 RBC CAPITAL MARKETS 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
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022 A000004 MORGAN STANLEY & CO. INCORPORATED
022 B000004 13-2655998
022 C000004 40097
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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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025	D000001	16320
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025	D000007	0
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026	F000000	N
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026	H000000	N
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035	000000	0

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054	C000000	Y
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054	F000000	N
054	G000000	Y
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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
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057	000000	N

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058 A000000 N
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060 B000000 N
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062 A000000 N
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062 P000000 0.0
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066 A000000 Y
066 B000000 N
066 C000000 N
066 D000000 N
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068 A000000 N
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070 L010000 Y
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070 M010000 N
070 M020000 N

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070	N010000	Y	
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070	O010000	Y	
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072	J000000		279
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072EE	000000		0
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074	B000000		16320
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074	F000000	2907520	
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074	H000000		0
074	I000000		1081
074	J000000		900
074	K000000		0

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074	L000000	1785
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074	N000000	3025636
074	O000000	5644
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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
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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	