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Kayne Anderson MLP Investment CO  
Form NSAR-B  
January 29, 2009

PAGE 1  
000 B000000 11/30/2008  
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000 D000000 N  
000 E000000 F  
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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  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
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008 C000001 801-46991  
008 D010001 HOUSTON  
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008 D030001 77002  
010 A000001 BEAR STEARNS FUNDS MANAGEMENT INC.  
010 B000001 81-1221401  
010 C010001 NEW YORK  
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011 A000001 CITIGROUP GLOBAL MARKETS INC.  
011 B000001 8-02800541  
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011 A000002 UBS SECURITIES LLC  
011 B000002 8-0280736  
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PAGE 2  
011 C020002 CT  
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011 A000003 RBC CAPITAL MARKETS CORPORATION  
011 B000003 8-01672  
011 C010003 NEW YORK  
011 C020003 NY

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011 C030003 10006  
011 A000004 DEUTSCHE BANK SECURITIES INC.  
011 B000004 8-00017822  
011 C010004 NEW YORK  
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011 A000005 SANDERS MORRIS HARRIS INC.  
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011 A000006 A.G. EDWARDS & SONS, INC.  
011 B000006 8-02803548  
011 C010006 ST LOUIS  
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011 C030006 63103  
011 A000007 ADVEST, INC.  
011 B000007 8-02804159  
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011 A000008 LEGG MASON WOOD WALKER, INCORPORATED  
011 B000008 8-00015939  
011 C010008 BALTIMORE  
011 C020008 MD  
011 C030008 21202  
011 A000009 OPPENHEIMER & CO. INC.  
011 B000009 8-00004077  
011 C010009 NEW YORK  
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011 A000010 FERRIS, BAKER WATT, INCORPORATED  
011 B000010 8-00016427  
011 C010010 WASHINGTON  
011 C020010 DC  
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011 A000011 MORGAN KEEGAN & COMPANY, INC.  
011 B000011 8-00015001  
011 C010011 MEMPHIS  
011 C020011 TN  
011 C030011 38103  
011 A000012 ROBERT W. BAIRD & CO. INCORPORATED  
011 B000012 8-02801911  
011 C010012 MILWAUKEE  
011 C020012 WI  
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011 C030012 53201  
011 A000013 WEDBUSH MORGAN SECURITIES INC.  
011 B000013 8-00012987  
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011 C020013 CA  
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012 A000001 AMERICAN STOCK TRANSFER & TRUST COMPANY  
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012 C010001 NEW YORK  
012 C020001 NY  
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013 A000001 PRICEWATERHOUSECOOPERS LLP  
013 B010001 LOS ANGELES  
013 B020001 CA  
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014 A000001 KA ASSOCIATES, INC.

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014 B000001 8-45640000  
015 A000001 CUSTODIAL TRUST COMPANY  
015 B000001 C  
015 C010001 PRINCETON  
015 C020001 NJ  
015 C030001 08540  
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019 A000000 Y  
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019 C000000 KAYNEANDER  
020 A000001 RBC DOMINION SECURITIES INC.  
020 C000001 124  
020 A000002 GOLDMAN, SACHS & CO.  
020 B000002 13-5108880  
020 C000002 114  
020 A000003 MERRILL LYNCH, PIEREC, FENNER & SMITH, INC.  
020 B000003 13-5674085  
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020 A000004 MORGAN STANLEY & CO.  
020 B000004 13-2655998  
020 C000004 66  
020 A000005 CREDIT SUISSE FIRST BOSTON  
020 B000005 05-0546650  
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020 A000006 REDI INVESTMENTS LLC  
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020 A000007 LEHMAN BROTHERS, INC.  
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020 A000008 SUSQUEHENNA CAPITAL GROUP  
020 B000008 23-2626048  
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020 C000009 31  
020 A000010 JEFFERIES & CO., INC.  
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022 A000001 J.P. MORGAN SECURITIES, INC.  
022 B000001 13-3379014  
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022 A000002 LEHMAN BROTHERS, INC.  
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022 A000005 WACHOVIA SECURITIES, LLC  
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054 L000000 N  
054 M000000 Y  
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PAGE 7  
055 B000000 Y  
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087 A010000 KAYNE ANDERSON MLP INVESTMENT COMPANY  
087 A020000 486606106  
087 A030000 KYN  
088 A000000 Y  
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TITLE CFO