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Kayne Anderson MLP Investment CO

Form NSAR-B

January 29, 2008

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001 B000000 811-21593
001 C000000 8776573863
002 A000000 717 TEXAS AVENUE, SUITE 3100
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010 A000001 BEAR STEARNS FUNDS MANAGEMENT INC.
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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
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011 A000003 RBC CAPITAL MARKETS CORPORATION
011 B000003 8-01672
011 C010003 NEW YORK
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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.
011 B000005 8-00038325
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011 A000006 A.G. EDWARDS & SONS, INC.
011 B000006 8-02803548
011 C010006 ST LOUIS
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011 A000007 ADVEST, INC.
011 B000007 8-02804159
011 C010007 HARTFORD
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011 A000008 LEGG MASON WOOD WALKER, INCORPORATED
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011 A000009 OPPENHEIMER & CO. INC.
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011 A000010 FERRIS, BAKER WATT, INCORPORATED
011 B000010 8-00016427
011 C010010 WASHINGTON
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011 A000011 MORGAN KEEGAN & COMPANY, INC.
011 B000011 8-00015001
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011 A000012 ROBERT W. BAIRD & CO. INCORPORATED
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011 A000013 WEDBUSH MORGAN SECURITIES INC.
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011 C010013 LOS ANGELES
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012 A000001 AMERICAN STOCK TRANSFER & TRUST COMPANY
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013 A000001 PRICEWATERHOUSECOOPERS LLP
013 B010001 LOS ANGELES
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014 A000001 KA ASSOCIATES, INC.

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014 B000001 8-45640000
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019 C000000 KAYNEANDER
020 A000001 A.G. EDWARDS & SONS, INC.
020 B000001 43-0895447
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020 A000002 LEHMAN BROTHERS, INC.
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020 C000002 71
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020 A000004 GOLDMAN, SACHS & CO.
020 B000004 13-5108880
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020 A000005 JEFFERIES & CO., INC.
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020 A000006 MERRILL LYNCH, PEIREC, FENNER & SMITH, INC.
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020 A000007 J.P. MORGAN SECURITIES, INC.
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020 A000009 RBC SOMINION SECURITIES INC.
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022 A000001 BEAR, STEARNS & CO., INC.
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SIGNATURE TERRY A. HART
TITLE CFO