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Kayne Anderson MLP Investment CO  
Form NSAR-B  
January 29, 2007

PAGE 1  
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001 A000000 KAYNE ANDERSON MLP INVESTMENT COMPANY  
001 B000000 811-21593  
001 C000000 8776573863  
002 A000000 1100 LOUISIANA STREET, SUITE 4550  
002 B000000 HOUSTON  
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010 A000001 BEAR STEARNS FUNDS MANAGEMENT INC.  
010 B000001 81-1221401  
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011 A000001 CITIGROUP GLOBAL MARKETS INC.  
011 B000001 8-02800541  
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011 A000002 UBS SECURITIES LLC  
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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 A000006 A.G. EDWARDS & SONS, INC.  
011 B000006 8-02803548  
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011 A000007 ADVEST, INC.  
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011 A000009 OPPENHEIMER & CO. INC.  
011 B000009 8-00004077  
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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.  
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011 A000012 ROBERT W. BAIRD & CO. INCORPORATED  
011 B000012 8-02801911  
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011 A000013 WEDBUSH MORGAN SECURITIES INC.  
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012 A000001 AMERICAN STOCK TRANSFER & TRUST COMPANY  
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013 A000001 PRICEWATERHOUSECOOPERS LLP  
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014 A000001 KA ASSOCIATES, INC.

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014 B000001 8-45640000  
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020 A000002 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
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020 A000007 JEFFERIES & CO., INC.  
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020 A000008 FRIEDMAN, BILLINGS, RAMSEY & CO., INC., INC.  
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020 A000009 MORGAN STANLEY & CO., INC.  
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SIGNATURE TERRY A. HART  
TITLE CFO