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Kayne Anderson MLP Investment CO
Form NSAR-A
July 27, 2007

PAGE 1
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001 B000000 811-21593
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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
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011 A000003 RBC CAPITAL MARKETS CORPORATION
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011 C030003 10006
011 A000004 DEUTSCHE BANK SECURITIES INC.
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011 A000006 A.G. EDWARDS & SONS, INC.
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011 A000007 ADVEST, INC.
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011 A000010 FERRIS, BAKER WATT, INCORPORATED
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011 A000011 MORGAN KEEGAN & COMPANY, INC.
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011 A000012 ROBERT W. BAIRD & CO. INCORPORATED
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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 A000004 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.
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020 A000005 JEFFERIES & CO., INC.
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020 A000009 FRIEDMAN, BILLINGS, RAMSEY & CO., INC.
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087 A030000	KYN

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088 A000000 Y

088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE TERRY A. HART

TITLE CFO