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Kayne Anderson MLP Investment CO
Form NSAR-A/A
September 13, 2005

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000 E000000 NF
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001 B000000 811-21593
001 C000000 8776573863
002 A000000 1800 AVENUE OF THE STARS, SECOND FLOOR
002 B000000 LOS ANGELES
002 C000000 CA
002 D010000 90067
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008 A000001 KAYNE ANDERSON CAPITAL ADVISORS, L.P.
008 B000001 A
008 C000001 801-46991
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010 A000001 BEAR STEARNS FUNDS MANAGEMENT INC.
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011 A000001 CITIGROUP GLOBAL MARKETS INC.
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011 A000002 UBS SECURITIES LLC
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PAGE 2
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011 A000003 RBC CAPITAL MARKETS CORPORATION
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011 C020003 NY

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011 C030003 10006
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011 A000005 SANDERS MORRIS HARRIS INC.
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011 A000006 A.G. EDWARDS & SONS, INC.
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011 C030006 63103
011 A000007 ADVEST, INC.
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011 A000009 OPPENHEIMER & CO. 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
011 B000012 8-00000000
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011 C030012 53201
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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

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 020 B000003 11-2418191
 020 C000003 52
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 020 B000004 41-1416330
 020 C000004 33
 020 A000005 CANTOR FITZGERALD & CO.
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 020 A000006 MERRILL LYNCH, PIERCE, FENNER & SMITH , INC.
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 020 B000007 13-2518466
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 020 A000008 A.G. EDWARDS & SONS, INC.
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SIGNATURE	RALPH WALTER	
TITLE	CFO	