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

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001 B000000 811-21593  
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002 A000000 717 TEXAS AVENUE, SUITE 3100  
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008 A000001 KA FUND ADVISORS, LLC  
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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.  
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011 A000002 UBS SECURITIES LLC  
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011 A000003 RBC CAPITAL MARKETS CORPORATION  
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011 C010003 NEW YORK  
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011 A000004 DEUTSCHE BANK SECURITIES INC.  
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011 A000009 OPPENHEIMER & CO. INC.  
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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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020 A000004 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
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088 A000000 Y

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SIGNATURE TERRY A. HART

TITLE CFO