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Kayne Anderson MLP Investment CO  
Form NSAR-A  
July 30, 2012

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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 ULTIMUS FUND SOLUTIONS, LLC  
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011 A000001 CITIGROUP GLOBAL MARKETS INC.  
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011 A000002 UBS SECURITIES LLC  
011 B000002 8-22651  
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011 C020002 NY  
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011 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
011 B000003 8-7221  
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011 C020003 NY

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011 A000007 RBC CAPITAL MARKETS, LLC  
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014 A000001 KA ASSOCIATES, INC.  
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020 A000003 JONES TRADING INSTITUTIONAL SERVICES LLC  
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020 A000004 BARCLAYS CAPITAL INC.  
020 B000004 06-1031656  
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022 A000010 RAYMOND JAMES & ASSOCIATES, INC.  
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