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Kayne Anderson MLP Investment CO  
Form NSAR-B  
January 29, 2016

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001 A000000 KAYNE ANDERSON MLP INVESTMENT COMPANY  
001 B000000 811-21593  
001 C000000 8776573863  
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010 A000001 ULTIMUS FUND SOLUTIONS, LLC  
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011 A000001 CITIGROUP GLOBAL MARKETS INC.  
011 B000001 8-8177  
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011 A000002 UBS SECURITIES, LLC  
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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 C030003 10080  
011 A000004 MORGAN STANLEY & CO. LLC  
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011 A000006 ROBERT W. BAIRD & CO. INCORPORATED  
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011 A000007 RBC CAPITAL MARKETS LLC  
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011 A000009 BARCLAYS CAPITAL INC.  
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014 A000001 KA ASSOCIATES, INC.  
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015 A000001 JPMORGAN CHASE BANK, N.A.  
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087 A020000 486606106

087 A030000 KYN

088 A000000 Y

088 B000000 N

088 C000000 Y

088 D000000 Y

SIGNATURE TERRY A. HART

TITLE CFO