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Kayne Anderson MLP Investment CO  
Form NSAR-A  
July 29, 2011

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001 A000000 KAYNE ANDERSON MLP INVESTMENT COMPANY  
001 B000000 811-21593  
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002 A000000 717 TEXAS AVENUE, SUITE 3100  
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011 A000002 UBS SECURITIES LLC  
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011 C020002 CT  
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011 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
011 B000003 8-7221  
011 C010003 NEW YORK  
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011 C030003 10036  
011 A000004 MORGAN STANLEY & CO. INCORPORATED  
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SIGNATURE	TERRY A. HART	
TITLE	CFO	