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Kayne Anderson MLP Investment CO  
Form NSAR-A  
July 29, 2008

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001 B000000 811-21593  
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002 A000000 717 TEXAS AVENUE, SUITE 3100  
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011 A000001 CITIGROUP GLOBAL MARKETS INC.  
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011 A000002 UBS SECURITIES LLC  
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011 C030003 10006  
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011 A000006 A.G. EDWARDS & SONS, INC.  
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011 A000007 ADVEST, INC.  
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014 A000001 KA ASSOCIATES, INC.

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SIGNATURE	TERRY A. HART	

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TITLE

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