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PIONEER HIGH INCOME TRUST

Form NSAR-B

May 30, 2007

PAGE 1  
000 B000000 03/31/2007  
000 C000000 1166258  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
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001 C000000 6177427825  
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002 C000000 MA  
002 D010000 02109  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
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008 D020001 MA  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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010 C040002 9095  
011 A000001 MERRILL LYNCH & CO.  
011 B000001 8-7221  
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PAGE 2  
011 C020001 NY  
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011 A000002 UBS WARBURG  
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011 C010002 STAMFORD

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011 C020002 CT  
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011 A000003 RBC CAPITAL MARKETS  
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011 C010003 MINNEAPOLIS  
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011 A000004 ADVEST, INC.  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
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011 C010005 PHILADELPHIA  
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011 A000006 MCDONALD INVESTMENTS INC.  
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
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012 A000001 PIONEER INV. MANGMT. SHAREHOLDER SERV, INC.  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST COMPANY  
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013 A000001 ERNST & YOUNG LLP  
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 022 A000007 CREDIT SUISSE SECURITIES (USA) LLC  
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 022 B000007 13-5659485  
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PAGE 6

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088	D000000	Y
SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	