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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  
000 J000000 A  
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001 B000000 811-21043  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
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002 C000000 MA  
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007 C010700 7  
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007 C010900 9  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
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008 D020001 MA  
008 D030001 02109  
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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010 C020002 NJ  
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011 A000001 MERRILL LYNCH & CO.  
011 B000001 8-7221  
011 C010001 NEW YORK  
PAGE 2  
011 C020001 NY  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
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.  
011 B000004 8-21409  
011 C010004 HARTFORD  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
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011 A000006 MCDONALD INVESTMENTS INC.  
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011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
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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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071 C000000	570691
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087	C020000	72369H304
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	PAGE	9
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088	D000000	Y
SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	