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PIONEER HIGH INCOME TRUST

Form NSAR-B

May 30, 2007

PAGE 1  
000 B000000 03/31/2007  
000 C000000 1166258  
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000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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001 B000000 811-21043  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
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007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
008 D020001 MA  
008 D030001 02109  
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
010 C010001 BOSTON  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
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010 C020002 NJ  
010 C030002 08543  
010 C040002 9095  
011 A000001 MERRILL LYNCH & CO.  
011 B000001 8-7221  
011 C010001 NEW YORK  
PAGE 2  
011 C020001 NY  
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011 C040001 1201  
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  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
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011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
011 C020004 CT  
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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 C040005 1675  
011 A000006 MCDONALD INVESTMENTS INC.  
011 B000006 8-30177  
011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
011 B000007 8-001447  
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011 C020007 MO  
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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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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
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013 A000001 ERNST & YOUNG LLP  
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022 B000002 13-3299429  
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022 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
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022 A000004 J.P. MORGAN SECURITIES, INC.  
022 B000004 13-3224016  
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022 B000005 13-2655998  
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022 A000006 UBS SECURITIES LLC  
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022 A000007 CREDIT SUISSE SECURITIES (USA) LLC  
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022 B000007 13-5659485  
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022 A000009 CITIGROUP GLOBAL MARKETS, INC.  
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| 062 | Q000000 | 2.2   |
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PAGE 6

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| 070 | B010000 | Y      |
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| 070 | D010000 | Y      |
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| 070 | E010000 | Y      |
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| 074 R040000 | 26146  |

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|           |                    |                            |
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| 080       | C000000            | 60000                      |
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| SIGNATURE | MARY KELLERMANN    |                            |
| TITLE     | ACCOUNTING MANAGER |                            |