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PIONEER HIGH INCOME TRUST

Form NSAR-A

November 29, 2007

PAGE 1  
000 A000000 09/30/2007  
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  
001 A000000 PIONEER HIGH INCOME TRUST  
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 C010400 4  
007 C010500 5  
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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  
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008 D020001 MA  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
010 C010002 PRINCETON  
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  
011 C030001 10281  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD

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011 C020002 CT  
011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
011 C040003 4422  
011 A000004 ADVEST, INC.  
011 B000004 8-21409  
011 C010004 HARTFORD  
011 C020004 CT  
011 C030004 06103  
011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
011 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
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 & CO., INC.  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
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011 A000008 DELETE  
012 A000001 PIONEER INV. MANGMT. SHAREHOLDER SERV, INC.  
012 B000001 85-00000  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.  
012 B000002 85-00000  
012 C010002 BROOKLYN  
012 C020002 NY  
012 C030002 11219  
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
012 B000003 85-00000  
012 C010003 NEW YORK  
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013 A000001 ERNST & YOUNG LLP  
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| 022 | A000006 | MERRILL LYNCH, PIERCE, FENNER & SMITH, INC. |
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| 022 | C000006 | 46860                                       |
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| 022 | A000009 | BASS TRADING                                |
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| 022 | A000010 | GOLDMAN, SACHS & CO.                        |
| 022 | B000010 | 13-5108880                                  |
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071 C000000 576971  
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| 087       | A010000            | COMMON STOCK                |
| 087       | A020000            | 72369H106                   |
| 087       | A030000            | PHT                         |
| 087       | B010000            | PREFERRED STOCK--SERIES M7  |
| 087       | B020000            | 72369H205                   |
| 087       | C010000            | PREFERRED STOCK--SERIES W28 |
| 087       | C020000            | 72369H304                   |
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| 088       | B000000            | N                           |
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| 088       | D000000            | Y                           |
| SIGNATURE | MARY KELLERMANN    |                             |
| TITLE     | ACCOUNTING MANAGER |                             |