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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
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
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007 C010400 4
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007 C010600 6
007 C010700 7
007 C010800 8
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008 B000001 A
008 C000001 801-8255
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 C010001 BOSTON
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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
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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
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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 C030005 19103
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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 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
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013 A000001 ERNST & YOUNG LLP
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 022 A000005 MORGAN STANLEY
 022 B000005 13-2655998
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 022 D000005 7664
 022 A000006 UBS SECURITIES LLC
 022 B000006 13-3873456
 022 C000006 54503
 022 D000006 4681
 022 A000007 CREDIT SUISSE SECURITIES (USA) LLC
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| 062 | R000000 | 2.1 |
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| 063 | B000000 | 8.2 |

PAGE 6

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| 066 | A000000 | N |
| 067 | 000000 | N |
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| 070 | D020000 | N |
| 070 | E010000 | Y |
| 070 | E020000 | N |
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| 070 | G020000 | N |
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| 070 | I010000 | N |
| 070 | I020000 | N |
| 070 | J010000 | Y |
| 070 | J020000 | Y |
| 070 | K010000 | Y |
| 070 | K020000 | N |
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| 070 | L020000 | Y |
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| 070 | Q020000 | N |
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| 071 C000000 | 570691 |
| 071 D000000 | 27 |
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| 074 R030000 | 0 |
| 074 R040000 | 26146 |

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| 074 | S000000 | 151123 |
| 074 | T000000 | 450444 |
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| 087 | A030000 | PHT |
| 087 | B010000 | PREFERRED STOCK-SERIES M7 |
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| 087 | C010000 | PREFERRED STOCK-SERIES W28 |
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| 088 | B000000 | N |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | MARY KELLERMANN | |
| TITLE | ACCOUNTING MANAGER | |