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Pioneer Diversified High Income Trust
Form NSAR-A
December 29, 2009

PAGE 1
000 A000000 10/31/2009
000 C000000 1388126
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 DIVERSIFIED HIGH INCOME TRUST
001 B000000 811-22014
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
004 000000 N
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
007 C010200 2
007 C010300 3
007 C010400 4
007 C010500 5
007 C010600 6
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
008 A000002 MONTEPELIER CAPITAL ADVISORS, LTD.
008 B000002 S
008 C000002 801-00000
008 D010002 BERMUDA
008 D050002 BERMUDA
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
010 C020001 MA
010 C030001 02109
010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
010 C020002 NJ
PAGE 2
010 C030002 08543
010 C040002 9095
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK
011 C020001 NY

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011 C030001 10281
011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-000000
011 C010002 XX
011 C020002 CT
011 C030002 00000
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ROBERT W. BAIRD & CO.
011 B000004 8-00000
011 C010004 MILWAUKEE
011 C020004 WI
011 C030004 00000
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 FERRIS, BAKER WATTS, INC.
011 B000006 8-00000
011 C010006 WASHINGTON
011 C020006 DC
011 C030006 00000
011 A000007 MORGAN KEEGAN & CO., INC.
011 B000007 8-000000
011 C010007 MEMPHIS
011 C020007 TN
011 C030007 00000
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-1359
012 C010001 BOSTON
012 C020001 MA
012 C030001 02109
012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
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015 A000002 BANK AUSTRIA
015 B000002 S
015 C010002 VIENNA
015 D010002 AUSTRIA
015 E040002 X
015 A000003 BANQUE BRUXELLES LAMBERT
015 B000003 S

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015 C010003 BRUSSELS
015 D010003 BELGIUM
015 E040003 X
015 A000004 BANK OF BOSTON
015 B000004 S
015 C010004 SAO PAULO
015 D010004 BRAZIL
015 E040004 X
015 A000005 NATIONAL AUSTRALIA BANK
015 B000005 S
015 C010005 MELBOURNE
015 D010005 AUSTRALIA
015 E040005 X
015 A000006 ROYAL BANK OF CANADA
015 B000006 S
015 C010006 TORONTO
015 D010006 CANADA
015 E040006 X
015 A000007 DEN DANSKE BANK
015 B000007 S
015 C010007 COPENHAGEN
015 D010007 DENMARK
015 E040007 X
015 A000008 MERITA BANK
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015 C010008 HELSINKI
015 D010008 FINLAND
015 E040008 X
015 A000009 BANQUE PARIBAS
015 B000009 S
015 C010009 PARIS
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015 A000010 DRESDNER BANK
015 B000010 S
PAGE 4
015 C010010 FRANKFURT
015 D010010 GERMANY
015 E040010 X
015 A000011 CITIBANK, N.A.
015 B000011 S
015 C010011 ATHENS
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015 E040011 X
015 A000012 STANDARD CHARTERED BANK
015 B000012 S
015 C010012 HONG KONG
015 D010012 HONG KONG
015 E040012 X
015 A000013 CITIBANK, N.A.
015 B000013 S
015 C010013 MUMBAI
015 D010013 INDIA
015 E040013 X
015 A000014 BANCA COMMERCIALE ITALIANA
015 B000014 S
015 C010014 MILAN
015 D010014 ITALY
015 E040014 X
015 A000015 THE SUMITOMO BANK, LIMITED
015 B000015 S
015 C010015 TOKYO

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015 D010015 JAPAN
015 E040015 X
015 A000016 CITIBANK, N.A.
015 B000016 S
015 C010016 SEOUL
015 D010016 SOUTH KOREA
015 E040016 X
015 A000017 HONK KONG BANK MALAYSIA
015 B000017 S
015 C010017 KUALA LUMPUR
015 D010017 MALAYSIA
015 E040017 X
015 A000018 CITIBANK, N.A.
015 B000018 S
015 C010018 MEXICO CITY
015 D010018 MEXICO
015 E040018 X
015 A000019 MEESPIERSON
015 B000019 S
015 C010019 AMSTERDAM
015 D010019 NETHERLANDS
015 E040019 X
015 A000020 NATIONAL NOMINEES LIMITED
015 B000020 S
015 C010020 AUCKLAND
PAGE 5
015 D010020 NEW ZEALAND
015 E040020 X
015 A000021 DEN NORSE BANK
015 B000021 S
015 C010021 OSLO
015 D010021 NORWAY
015 E040021 X
015 A000022 CITIBANK, N.A.
015 B000022 S
015 C010022 WARSAW
015 D010022 POLAND
015 E040022 X
015 A000023 BANCO COMERCIAL PORTUGUESE SA
015 B000023 S
015 C010023 LISBON
015 D010023 PORTUGAL
015 E040023 X
015 A000024 STANDARD CHARTERED BANK
015 B000024 S
015 C010024 SINGAPORE
015 D010024 SINGAPORE
015 E040024 X
015 A000025 BANCO DE SANTANDER
015 B000025 S
015 C010025 MADRID
015 D010025 SPAIN
015 E040025 X
015 A000026 SKANDINAVISKA ENSKILDA BANKEN
015 B000026 S
015 C010026 STOCKHOLM
015 D010026 SWEDEN
015 E040026 X
015 A000027 UNION BANK OF SWITZERLAND AG
015 B000027 S
015 C010027 ZURICH
015 D010027 SWITZERLAND

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015 E040027 X
015 A000028 CENTRAL TRUST OF CHINA
015 B000028 S
015 C010028 TAIPEI
015 D010028 TAIWAN
015 E040028 X
015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION
015 B000029 S
015 C010029 BANGKOK
015 D010029 THAILAND
015 E040029 X
015 A000030 MIDLAND BANK
015 B000030 S
015 C010030 LONDON
015 D010030 UNITED KINGDOM

PAGE 6

015 E040030 X
015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA
015 B000031 S
015 C010031 JOHANNESBURG
015 D010031 SOUTH AFRICA
015 E040031 X
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019 B000000 62
019 C000000 PIONEERFDS
020 C000001 0
020 C000002 0
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020 C000008 0
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020 C000010 0
021 000000 0
022 A000001 BROWN BROTHERS HARRIMAN & CO.
022 B000001 13-4973745
022 C000001 183263
022 D000001 0
022 A000002 J.P. MORGAN SECURITIES, INC.
022 B000002 13-3299429
022 C000002 111992
022 D000002 780
022 A000003 BANC OF AMERICA SECURITIES, LLC
022 B000003 56-2058405
022 C000003 98165
022 D000003 158
022 A000004 BNP PARIBAS SECURITIES CORP.
022 B000004 13-3235334
022 C000004 66200
022 D000004 0
022 A000005 DEUTSCHE BANK SECURITIES, INC.
022 B000005 13-2730828
022 C000005 27219
022 D000005 529
022 A000006 BARCLAYS CAPITAL, INC.
022 C000006 6850
022 D000006 969
022 A000007 GOLDMAN, SACHS & CO.
022 B000007 13-5108880

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022 C000007 4736
 022 D000007 402
 022 A000008 CREDIT SUISSE SECURITIES (USA), LLC
 022 B000008 13-5659485
 022 C000008 4627

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022 D000008 288
 022 A000009 CITIGROUP GLOBAL MARKETS, INC.
 022 B000009 11-2418191
 022 C000009 4379
 022 D000009 210
 022 A000010 MORGAN STANLEY & CO., INC.
 022 B000010 13-2655998
 022 C000010 2355
 022 D000010 582
 023 C000000 516088
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024 000000 Y
 025 A000001 GOLDMAN SACHS CAPITAL II
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PAGE 8

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069 000000 N
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PAGE 10

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| 075 B000000 | 135357 |
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| 080 A000000 | ICI MUTUAL INSURANCE CO. |
| 080 C000000 | 45000 |
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| 081 B000000 | 62 |
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| 083 A000000 | N |
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| 087 | A010000 | COMMON STOCK |
| 087 | A020000 | 723653101 |
| | PAGE | 12 |
| 087 | A030000 | HNW |
| 088 | A000000 | N |
| 088 | B000000 | N |
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| 088 | D000000 | N |
| SIGNATURE | MARY KELLERMANN | |
| TITLE | ACCOUNTING MANAGER | |