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Pioneer Diversified High Income Trust
Form NSAR-B
June 29, 2009

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000 B000000 04/30/2009
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
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005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
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007 C010200 2
007 C010300 3
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007 C010600 6
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007 C010900 9
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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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
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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
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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
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011 C020004 WI
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
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011 A000006 FERRIS, BAKER WATTS, INC.
011 B000006 8-00000
011 C010006 WASHINGTON
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011 A000007 MORGAN KEEGAN & CO., INC.
011 B000007 8-000000
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012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
012 B000001 85-1359
012 C010001 BOSTON
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
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013 A000001 ERNST & YOUNG LLP
PAGE 3
013 B010001 BOSTON
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015 B000001 C
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015 A000002 BANK AUSTRIA
015 B000002 S
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015 D010002 AUSTRIA
015 E040002 X
015 A000003 BANQUE BRUXELLES LAMBERT
015 B000003 S

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015 C010003 BRUSSELS
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015 A000004 BANK OF BOSTON
015 B000004 S
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015 E040005 X
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015 C010006 TORONTO
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015 C010010 FRANKFURT
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015 A000011 CITIBANK, N.A.
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015 C010011 ATHENS
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015 A000012 STANDARD CHARTERED BANK
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015 C010012 HONG KONG
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015 D010013 INDIA
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015 A000014 BANCA COMMERCIALE ITALIANA
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015 C010014 MILAN
015 D010014 ITALY
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015 A000015 THE SUMITOMO BANK, LIMITED
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015 C010015 TOKYO

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015 D010015 JAPAN
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015 A000016 CITIBANK, N.A.
015 B000016 S
015 C010016 SEOUL
015 D010016 SOUTH KOREA
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015 A000017 HONK KONG BANK MALAYSIA
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015 C010017 KUALA LUMPUR
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015 E040017 X
015 A000018 CITIBANK, N.A.
015 B000018 S
015 C010018 MEXICO CITY
015 D010018 MEXICO
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015 A000019 MEESPIERSON
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015 A000020 NATIONAL NOMINEES LIMITED
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PAGE 5
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015 A000021 DEN NORSE BANK
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015 C010021 OSLO
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015 A000022 CITIBANK, N.A.
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015 A000023 BANCO COMERCIAL PORTUGUESE SA
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015 C010023 LISBON
015 D010023 PORTUGAL
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015 A000024 STANDARD CHARTERED BANK
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015 E040024 X
015 A000025 BANCO DE SANTANDER
015 B000025 S
015 C010025 MADRID
015 D010025 SPAIN
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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

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022 B000002 13-2730828
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022 D000002 949
022 A000003 BARCLAYS INVESTMENTS, INC.
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022 C000003 136312
022 D000003 1949
022 A000004 BANC OF AMERICA SECURITIES, INC.
022 B000004 56-2058405
022 C000004 132749
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022 A000005 J.P. MORGAN SECURITIES, INC.
022 B000005 13-3299429
022 C000005 125151
022 D000005 2787
022 A000006 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.
022 B000006 13-5674085
022 C000006 110019
022 D000006 1181
022 A000007 CREDIT SUISSE SECURITIES (USA), LLC

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022 B000007 13-5659485
022 C000007 7873
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022 A000008 GOLDMAN, SACHS & CO.
022 B000008 13-5108880
PAGE 7
022 C000008 7026
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022 A000009 MORGAN STANLEY & CO., INC.
022 B000009 13-2655998
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022 A000010 CITIGROUP GLOBAL MARKETS, INC.
022 B000010 11-2418191
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087 A020000 723653101
087 A030000 HNW
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 N
SIGNATURE MARY KELLERMANN
TITLE ACCOUNTING MANAGER