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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  
004 000000 N  
005 000000 N  
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007 C010900 9  
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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  
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011 A000003 RBC CAPITAL MARKETS CORP.  
011 B000003 8-045411  
011 C010003 MINNEAPOLIS  
011 C020003 MN  
011 C030003 55402  
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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  
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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  
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013 B010001 BOSTON  
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015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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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  
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015 A000004 BANK OF BOSTON  
015 B000004 S  
015 C010004 SAO PAULO  
015 D010004 BRAZIL  
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015 A000005 NATIONAL AUSTRALIA BANK  
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015 C010005 MELBOURNE  
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015 A000006 ROYAL BANK OF CANADA  
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015 A000007 DEN DANSKE BANK  
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015 E040008 X  
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015 C010009 PARIS  
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015 C010010 FRANKFURT  
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015 A000011 CITIBANK, N.A.  
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015 A000012 STANDARD CHARTERED BANK  
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015 C010012 HONG KONG  
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015 A000013 CITIBANK, N.A.  
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015 C010013 MUMBAI  
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015 A000014 BANCA COMMERCIALE ITALIANA  
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015 C010014 MILAN  
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015 E040014 X  
015 A000015 THE SUMITOMO BANK, LIMITED  
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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  
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015 C010017 KUALA LUMPUR  
015 D010017 MALAYSIA  
015 E040017 X  
015 A000018 CITIBANK, N.A.  
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015 C010018 MEXICO CITY  
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015 E040018 X  
015 A000019 MEESPIERSON  
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015 C010019 AMSTERDAM  
015 D010019 NETHERLANDS  
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015 A000020 NATIONAL NOMINEES LIMITED  
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015 C010020 AUCKLAND  
PAGE 5  
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015 E040020 X  
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 C010022 WARSAW  
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015 A000023 BANCO COMERCIAL PORTUGUESE SA  
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015 A000024 STANDARD CHARTERED BANK  
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015 C010024 SINGAPORE  
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015 A000025 BANCO DE SANTANDER  
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015 C010025 MADRID  
015 D010025 SPAIN  
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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  
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 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

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022 A000001 BROWN BROTHERS HARRIMAN & CO.

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022 C000001 476673

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022 A000002 DEUTSCHE BANK SECURITIES, INC.

022 B000002 13-2730828

022 C000002 146437

022 D000002 949

022 A000003 BARCLAYS INVESTMENTS, INC.

022 B000003 05-0346412

022 C000003 136312

022 D000003 1949

022 A000004 BANC OF AMERICA SECURITIES, INC.

022 B000004 56-2058405

022 C000004 132749

022 D000004 593

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  
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 022 D000007 3021  
 022 A000008 GOLDMAN, SACHS & CO.  
 022 B000008 13-5108880  
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 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.  
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TITLE ACCOUNTING MANAGER