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Pioneer Diversified High Income Trust  
Form NSAR-A  
December 30, 2010

PAGE 1  
000 A000000 10/31/2010  
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  
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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 STATE STREET BANK & TRUST COMPANY, LLC  
010 C010002 BOSTON  
010 C020002 MA  
PAGE 2  
010 C030002 02101  
011 A000001 MERRILL LYNCH & CO.  
011 B000001 8-7221  
011 C010001 NEW YORK  
011 C020001 NY  
011 C030001 10281

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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  
013 B010001 BOSTON  
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013 B020001 MA  
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015 A000001 BROWN BROTHERS HARRIMAN & CO.  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
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015 E010001 X  
015 A000002 BANK AUSTRIA  
015 B000002 S  
015 C010002 VIENNA  
015 D010002 AUSTRIA  
015 E040002 X  
015 A000003 BANQUE BRUXELLES LAMBERT  
015 B000003 S  
015 C010003 BRUSSELS

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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  
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015 A000008 MERITA BANK  
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015 A000009 BANQUE PARIBAS  
015 B000009 S  
015 C010009 PARIS  
015 D010009 FRANCE  
015 E040009 X  
015 A000010 DRESDNER BANK  
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015 C010010 FRANKFURT  
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015 E040010 X  
015 A000011 CITIBANK, N.A.  
015 B000011 S  
015 C010011 ATHENS  
015 D010011 GREECE  
015 E040011 X  
015 A000012 STANDARD CHARTERED BANK  
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015 C010012 HONG KONG  
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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  
015 D010015 JAPAN

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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  
015 D010020 NEW ZEALAND  
PAGE 5  
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  
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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  
015 E040027 X

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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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PAGE 6

015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA  
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015 C010031 JOHANNESBURG  
015 D010031 SOUTH AFRICA  
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020 A000001 LIQUIDNET, INC.  
020 B000001 13-4095933  
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020 A000002 ITG INC.  
020 B000002 95-4339369  
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020 A000003 SUSQUEHANNA FINANCIAL GROUP, LLLP  
020 C000003 0  
020 A000004 DEUTSCHE BANK SECURITIES INC.  
020 B000004 13-2730828  
020 C000004 0  
020 A000005 BB&T INVESTMENT SERVICES, INC.  
020 C000005 0  
020 A000006 UBS SECURITIES LLC  
020 B000006 13-3873456  
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020 A000007 JEFFERIES & COMPANY, INC.  
020 B000007 95-2622900  
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020 A000008 OPPENHEIMER & CO. INC.  
020 C000008 0  
020 A000009 CANTOR FITZGERALD & CO.  
020 B000009 13-3680184  
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020 A000010 NOMURA SECURITIES INTERNATIONAL, INC.  
020 B000010 13-2642206  
020 C000010 0  
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022 A000001 BROWN BROTHERS HARRIMAN & CO.  
022 B000001 13-4973745  
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022 A000002 BNP PARIBAS SECURITIES CORP.  
022 B000002 13-3235334  
022 C000002 86460  
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022 A000003 SG AMERICAS SECURITIES, LLC

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022 B000003 13-3606844  
022 C000003 40020  
022 D000003 0  
022 A000004 BARCLAYS CAPITAL INC.  
022 C000004 15325  
PAGE 7  
022 D000004 0  
022 A000005 BANC OF AMERICA SECURITIES LLC  
022 B000005 56-2058405  
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022 A000006 J.P. MORGAN SECURITIES INC.  
022 B000006 13-3299429  
022 C000006 7477  
022 D000006 2618  
022 A000007 DEUTSCHE BANK SECURITIES INC.  
022 B000007 13-2730828  
022 C000007 4324  
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022 A000008 GOLDMAN, SACHS & CO.  
022 B000008 13-5108880  
022 C000008 4748  
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022 A000009 CREDIT SUISSE SECURITIES (USA) L.L.C.  
022 B000009 13-5659485  
022 C000009 3920  
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022 A000010 CITIGROUP GLOBAL MARKETS, INC.  
022 B000010 11-2418191  
022 C000010 2155  
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023 C000000 389397  
023 D000000 17232  
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025 A000001 BANK OF AMERICA CORP.  
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025 A000002 DEUTSCHE BANK SECURITIES, INC.  
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074 U010000	8220

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087	A020000	723653101
087	A030000	HNW
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088	D000000	N
SIGNATURE	MARK E. BRADLEY	
TITLE	TREASURER	