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Pioneer Diversified High Income Trust
Form NSAR-A
December 30, 2011

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000 A000000 10/31/2011
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
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007 C010100 1
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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008 D020001 MA
008 D030001 02109
008 A000002 MONTPELIER 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
010 C030002 02101
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK
011 C020001 NY
011 C030001 10281
011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
PAGE 2
011 C010002 STAMFORD
011 C020002 CT
011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS

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011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 ROBERT W. BAIRD & CO.
011 B000004 8-00497
011 C010004 MILWAUKEE
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011 C030004 53201
011 C040004 0672
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
011 C020006 DC
011 C030006 20006
011 A000007 MORGAN KEEGAN & CO., INC.
011 B000007 8-15001
011 C010007 MEMPHIS
011 C020007 TN
011 C030007 38103
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 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
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015 C030001 02109
PAGE 3
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015 C010002 VIENNA
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015 E040002 X
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015 C010003 BRUSSELS
015 D010003 BELGIUM
015 E040003 X
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015 B000004 S
015 C010004 SAO PAULO
015 D010004 BRAZIL
015 E040004 X

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015 A000005 NATIONAL AUSTRALIA BANK
015 B000005 S
015 C010005 MELBOURNE
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015 D010006 CANADA
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015 E040007 X
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015 D010008 FINLAND
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015 C010009 PARIS
015 D010009 FRANCE
015 E040009 X
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015 B000010 S
015 C010010 FRANKFURT
015 D010010 GERMANY
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015 B000011 S
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015 D010011 GREECE
015 E040011 X
PAGE 4
015 A000012 STANDARD CHARTERED BANK
015 B000012 S
015 C010012 HONG KONG
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015 C010013 MUMBAI
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 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 B000017 S
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015 D010017 MALAYSIA
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015 E040019 X
015 A000020 NATIONAL NOMINEES LIMITED
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015 C010020 AUCKLAND
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015 A000021 DEN NORSE BANK
015 B000021 S
015 C010021 OSLO
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015 E040021 X
015 A000022 CITIBANK, N.A.
PAGE 5
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015 C010022 WARSAW
015 D010022 POLAND
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015 A000023 BANCO COMERCIAL PORTUGUESE SA
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015 C010023 LISBON
015 D010023 PORTUGAL
015 E040023 X
015 A000024 STANDARD CHARTERED BANK
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015 A000025 BANCO DE SANTANDER
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015 D010026 SWEDEN
015 E040026 X
015 A000027 UNION BANK OF SWITZERLAND AG
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015 C010027 ZURICH
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015 A000028 CENTRAL TRUST OF CHINA
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015 C010028 TAIPEI
015 D010028 TAIWAN
015 E040028 X
015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION
015 B000029 S

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015 C010029 BANGKOK
015 D010029 THAILAND
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015 A000030 MIDLAND BANK
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015 C010030 LONDON
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015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA
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022 C000001 7356
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022 A000002 ZIEGLER SECURITIES
022 B000002 39-1148883
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022 A000003 MESIROW FINANCIAL IN
022 B000003 36-3194849
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022 A000004 VINING SPARKS
022 B000004 62-1445536
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022 A000005 FIRST MIAMI SECURITIES
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022 A000006 PIPER JAFFRAY
022 B000006 30-0168701
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022 B000009 61-0316560
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022 B000010 63-0589368
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025 A000001 BARCLAYS CAPITAL, INC.
 025 B000001 61-0316560
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 025 D000001 888
 025 A000002 BANK OF AMERICA CORP

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087	A030000	HNW
088	A000000	N
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088	D000000	N

SIGNATURE MARK E. BRADLEY
TITLE TREASURER