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Pioneer Diversified High Income Trust
Form NSAR-B
June 29, 2012

PAGE 1
000 B000000 04/30/2012
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
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
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
011 C020004 WI
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
011 C040005 1675
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
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHERS HARRIMAN & CO.
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015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
PAGE 3
015 E010001 X
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015 C010002 VIENNA
015 D010002 AUSTRIA
015 E040002 X
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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

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015 A000005 NATIONAL AUSTRALIA BANK
015 B000005 S
015 C010005 MELBOURNE
015 D010005 AUSTRALIA
015 E040005 X
015 A000006 ROYAL BANK OF CANADA
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015 C010009 PARIS
015 D010009 FRANCE
015 E040009 X
015 A000010 DRESDNER BANK
015 B000010 S
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
PAGE 4
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
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 B000017 S
015 C010017 KUALA LUMPUR
015 D010017 MALAYSIA
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015 A000018 CITIBANK, N.A.
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015 C010020 AUCKLAND
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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.
PAGE 5
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
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015 A000025 BANCO DE SANTANDER
015 B000025 S
015 C010025 MADRID
015 D010025 SPAIN
015 E040025 X
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015 C010026 STOCKHOLM
015 D010026 SWEDEN
015 E040026 X
015 A000027 UNION BANK OF SWITZERLAND AG
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015 C010027 ZURICH
015 D010027 SWITZERLAND
015 E040027 X
015 A000028 CENTRAL TRUST OF CHINA
015 B000028 S
015 C010028 TAIPEI
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015 A000029 HONG KONG AND SHANGHAI BANKING CORPORATION
015 B000029 S

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015 C010029 BANGKOK
015 D010029 THAILAND
015 E040029 X
015 A000030 MIDLAND BANK
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015 C010030 LONDON
015 D010030 UNITED KINGDOM
015 E040030 X
015 A000031 FIRST NATIONAL BANK OF SOUTH AFRICA
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015 C010031 JOHANNESBURG
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015 E040031 X
018 000000 Y
019 A000000 Y

PAGE 6

019 B000000 56
019 C000000 PIONEERFDS
021 000000 0
022 A000001 J.P. MORGAN SECURITIES INC.
022 B000001 13-3299429
022 C000001 488433
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022 A000002 DEUTSCHE BANK SECURITIES, INC.
022 B000002 13-2730828
022 C000002 21915
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022 A000003 SOCIETE GENERALE
022 C000003 16250
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022 A000004 AON BENFIELD SECURITIES, INC
022 B000004 13-2642812
022 C000004 4802
022 D000004 1759
022 A000005 CITIGROUP GLOBAL MARKETS, INC.
022 B000005 11-2418191
022 C000005 5912
022 D000005 583
022 A000006 MORGAN STANLEY & CO., INC.
022 B000006 13-2655998
022 C000006 5730
022 D000006 677
022 A000007 GOLDMAN SACHS & CO.
022 B000007 13-5108880
022 C000007 5010
022 D000007 271
022 A000008 BANK OF AMERICA CORP
022 B000008 56-0906609
022 C000008 4562
022 D000008 178
022 A000009 BARCLAYS CAPITAL, INC.
022 B000009 61-0316560
022 C000009 4134
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022 A000010 JEFFERIES & CO., INC.
022 B000010 95-2622900
022 C000010 2817
022 D000010 1110
023 C000000 577619
023 D000000 8898
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025 A000001 JANUS CAPITAL GROUP, INC.

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025 B000001 43-1804048
 025 C000001 D
 025 D000001 634
 025 A000002 GOLDMAN SACHS CAPITAL II
 025 B000002 20-6109939

PAGE 7

025 C000002 D
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PAGE 8

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086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK

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087 A020000 723653101

087 A030000 HNW

088 A000000 N

088 B000000 N

088 C000000 N

088 D000000 N

SIGNATURE MARK E. BRADLEY

TITLE TREASURER