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Pioneer Diversified High Income Trust
Form NSAR-A
December 28, 2012

PAGE 1
000 A000000 10/31/2012
000 C000000 0001388126
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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007 C020100 PIONEER DIVERSIFIED HIGH INCOME TRUST
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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 MONTPELIER CAPITAL ADVISORS, LTD.
008 B000002 S
008 C000002 801-00000
008 D010002 HAMILTON
008 D050002 BERMUDA
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
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010 C030001 02109
010 A000002 BROWN BROTHERS HARRIMAN & CO.
PAGE 2
010 C010002 BOSTON
010 C020002 MA
010 C030002 02109
011 A000001 MERRILL LYNCH & CO.
011 B000001 8-7221
011 C010001 NEW YORK

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011 C020001 NY
011 C030001 10281
011 C040001 1201
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT
011 C030002 06901
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 8-00497
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
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO.
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
PAGE 3
012 C030002 11219
013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
013 B040001 5072
015 A000001 BROWN BROTHER HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
015 C030001 02109
015 E010001 X
015 A000002 CITIBANK, N.A., BUENOS AIRES BRANCH
015 B000002 S
015 C010002 BUENOS AIRES
015 D010002 ARGENTINA

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015 E040002 X
015 A000003 HSBC BANK AUSTRALIA LIMITED
015 B000003 S
015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 UNICREDIT BANK AUSTRIA AG
015 B000004 S
015 C010004 VIENNA
015 D010004 AUSTRIA
015 E040004 X
015 A000005 BNP PARIBAS SECURITIES SERVICES
015 B000005 S
015 C010005 PANTIN
015 D010005 BELGIUM
015 E040005 X
015 A000006 EUROCLEAR BANK SA NV
015 B000006 S
015 C010006 BRUSSELS
015 D010006 BELGIUM
015 E040006 X
015 A000007 HSBC BANK BERMUDA LIMITED
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015 C010007 HAMILTON
015 D010007 BERMUDA
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015 A000008 CITIBANK, N.A., SAO PAULO BRANCH
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015 D010008 BRAZIL
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015 B000009 S
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015 D010009 BULGARIA
PAGE 4
015 E040009 X
015 A000010 RBC INVESTOR SERVICES TRUST
015 B000010 S
015 C010010 TORONTO
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015 A000011 BANCO DE CHILE
015 B000011 S
015 C010011 SANTIAGO
015 D010011 CHILE
015 E040011 X
015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
015 B000012 S
015 C010012 SHANGHAI
015 D010012 CHINA
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
015 B000013 S
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015 E040013 X
015 A000014 UNICREDIT BANK AUSTRIA AG
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
015 B000015 S
015 C010015 PRAGUE
015 D010015 CZECH REPUBLIC
015 E040015 X
015 A000016 DANSKE BANK A/S
015 B000016 S
015 C010016 COPENHAGEN
015 D010016 DENMARK
015 E040016 X
015 A000017 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000017 S
015 C010017 COPENHAGEN
015 D010017 DENMARK
015 E040017 X
015 A000018 CITIBANK N.A., CAIRO BRANCH
015 B000018 S
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015 D010018 EGYPT
015 E040018 X
015 A000019 NORDEA BANK FINLAND PLC
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015 E040019 X
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015 A000020 BNP PARIBAS SECURITIES SERVICES
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015 D010021 GERMANY
015 E040021 X
015 A000022 HSBC BANK PLC, ATHENS BRANCH
015 B000022 S
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015 D010022 GREECE
015 E040022 X
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000023 S
015 C010023 HONG KONG
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015 E040023 X
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH
015 B000024 S
015 C010024 BUDAPEST
015 D010024 HUNGARY
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015 A000025 CITIBANK N.A., MUMBAI BRANCH
015 B000025 S
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015 D010025 INDIA
015 E040025 X
015 A000026 CITIBANK N.A., JAKARTA BRANCH
015 B000026 S
015 C010026 JAKARTA
015 D010026 INDONESIA
015 E040026 X
015 A000027 CITIBANK N.A., LONDON BRANCH

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015 B000027 S
015 C010027 LONDON
015 D010027 IRELAND
015 E040027 X
015 A000028 BANK HAPOLIM BM
015 B000028 S
015 C010028 TEL AVIV
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015 A000029 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000029 S
015 C010029 MILAN
015 D010029 ITALY
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015 A000030 SUMITOMO MITSU BANKING CORPORATION

PAGE 6

015 B000030 S
015 C010030 TOKYO
015 D010030 JAPAN
015 E040030 X
015 A000031 CFC STANBIC BANK LIMITED
015 B000031 S
015 C010031 NAIROBI
015 D010031 KENYA
015 E040031 X
015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000032 S
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015 D010032 KUWAIT
015 E040032 X
015 A000033 KBL EUROPEAN PRIVATE BANKERS SA
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015 C010033 LUXEMBOURG
015 D010033 LUXEMBOURG
015 E040033 X
015 A000034 HSBC BANK MALYASIA BERHAD
015 B000034 S
015 C010034 KUALA LUMPUR
015 D010034 MALAYSIA
015 E040034 X
015 A000035 BANCO NACIONAL DE MEXICO, SA (BANAMEX)
015 B000035 S
015 C010035 MEXICO CITY
015 D010035 MEXICO
015 E040035 X
015 A000036 INVERMEXICO MEXICO CITY SOD A/C
015 B000036 S
015 C010036 MEXICO CITY
015 D010036 MEXICO
015 E040036 X
015 A000037 CITIBANK MAGHREB
015 B000037 S
015 C010037 CASABLANCA
015 D010037 MOROCCO
015 E040037 X
015 A000038 BNP PARIBAS SECURITIES SERVICES
015 B000038 S
015 C010038 PANTIN
015 D010038 NETHERLANDS
015 E040038 X
015 A000039 THE HONG KONG & SHANGHAI BANKING CORP LTD (NZ)
015 B000039 S

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015 C010039 AUCKLAND
015 D010039 NEW ZEALAND
015 E040039 X
015 A000040 STANBIC IBTC PLC
015 B000040 S
PAGE 7
015 C010040 LAGOS
015 D010040 NIGERIA
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015 A000041 DNB BANK ASA
015 B000041 S
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015 E040041 X
015 A000042 NORDEA BANK NORGE ASA
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015 D010042 NORWAY
015 E040042 X
015 A000043 CITIBANK DEL PERU S.A.
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015 C010043 LIMA
015 D010043 PERU
015 E040043 X
015 A000044 THE HONG KONG & SHANGHAI BANKING CORP LTD (PH)
015 B000044 S
015 C010044 TAGUIG
015 D010044 PHILIPPINES
015 E040044 X
015 A000045 BANK HANDLOWY W WARSZAWIE SA
015 B000045 S
015 C010045 WARSAW
015 D010045 POLAND
015 E040045 X
015 A000046 BNP PARIBAS SECURITIES SERVICES
015 B000046 S
015 C010046 PANTIN
015 D010046 PORTUGAL
015 E040046 X
015 A000047 ING BANK N.V., BUCHAREST BRANCH
015 B000047 S
015 C010047 BUCHAREST
015 D010047 ROMANIA
015 E040047 X
015 A000048 ZAO CITIBANK
015 B000048 S
015 C010048 MOSCOW
015 D010048 RUSSIA
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015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH
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015 C010049 SINGAPORE
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015 A000050 ING BANK N.V., BRATISLAVA BRANCH
015 B000050 S
015 C010050 BRATISLAVA
PAGE 8
015 D010050 SLOVAKIA
015 E040050 X
015 A000051 STANDARD CHARTERED BANK OF SOUTH AFRICA LTD
015 B000051 S

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015 C010051 JOHANNESBURG
015 D010051 SOUTH AFRICA
015 E040051 X
015 A000052 CITIBANK KOREA, INC.
015 B000052 S
015 C010052 SEOUL
015 D010052 SOUTH KOREA
015 E040052 X
015 A000053 HANA BANK
015 B000053 S
015 C010053 SEOUL
015 D010053 SOUTH KOREA
015 E040053 X
015 A000054 BANCO BILBAO VIZCAYA ARGENTARIA SA
015 B000054 S
015 C010054 MADRID
015 D010054 SPAIN
015 E040054 X
015 A000055 THE HONG KONG & SHANGHAI BANKING CORP LTD (SL)
015 B000055 S
015 C010055 COLOMBO
015 D010055 SRI LANKA
015 E040055 X
015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000056 S
015 C010056 STOCKHOLM
015 D010056 SWEDEN
015 E040056 X
015 A000057 CREDIT SUISSE AG
015 B000057 S
015 C010057 ZURICH
015 D010057 SWITZERLAND
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015 A000058 BANK OF TAIWAN
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015 C010058 TAIPEI
015 D010058 TAIWAN
015 E040058 X
015 A000059 THE HONG KONG & SHANGHAI BANKING CORP LTD (TH)
015 B000059 S
015 C010059 BANGKOK
015 D010059 THAILAND
015 E040059 X
015 A000060 CITIBANK ANONIM SIRKETI
015 B000060 S
015 C010060 ISTANBUL
015 D010060 TURKEY
PAGE 9
015 E040060 X
015 A000061 HSBC BANK MIDDLE EAST LIMITED
015 B000061 S
015 C010061 DUBAI
015 D010061 UNITED ARAB EMIRATES
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015 A000062 HSBC BANK PLC
015 B000062 S
015 C010062 LONDON
015 D010062 UNITED KINGDOM
015 E040062 X
015 A000063 CITIBANK N.A., CARACAS BRANCH
015 B000063 S
015 C010063 CARACAS

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015 D010063 VENEZUELA
 015 E040063 X
 015 A000064 HSBC BANK (VIETNAM) LTD
 015 B000064 S
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 015 D010064 VIETNAM
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 020 A000001 CITIGROUP GLOBAL MARKETS, INC.
 020 B000001 11-2418191
 020 C000001 0
 020 A000002 JP MORGAN SECURITIES, INC.
 020 B000002 13-3379014
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 020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH
 020 B000003 13-5674085
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 022 D000001 2988
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 022 B000003 13-5659485
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 022 A000004 GOLDMAN, SACHS & CO.
 022 B000004 13-5108880
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 022 A000005 MERRILL LYNCH, PIERCE, FENNER & SMITH
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 022 A000007 MORGAN STANLEY & CO., INC.
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 022 C000007 2658
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 022 A000008 BNY MELLON CAPITAL MARKETS, LLC
 022 B000008 23-2384977
 022 C000008 2224

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088 A000000 N
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SIGNATURE MARK BRADLEY
TITLE TREASURER