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BlackRock Health Sciences Trust

Form NSAR-B

December 31, 2007

PAGE 1
000 B000000 10/31/2007
000 C000000 0001314966
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
000 J000000 A
001 A000000 BLACKROCK HEALTH SCIENCES TRUST
001 B000000 811-21702
001 C000000 8888252257
002 A000000 100 BELLEVUE PARKWAY
002 B000000 WILMINGTON
002 C000000 DE
002 D010000 19809
003 000000 N
004 000000 N
005 000000 N
006 000000 N
007 A000000 N
007 B000000 0
007 C010100 1
008 A000001 BLACKROCK ADVISORS, LLC
008 B000001 A
008 C000001 801-47710
008 D010001 WILMINGTON
008 D020001 DE
008 D030001 19809
012 A000001 THE BANK OF NEW YORK
012 B000001 85-0000000
012 C010001 NEW YORK
012 C020001 NY
012 C030001 10286
013 A000001 DELOITTE & TOUCHE LLP
013 B010001 NEW YORK
013 B020001 NY
013 B030001 10281
014 A000001 BLACKROCK INVESTMENTS, INC.
014 B000001 8-048436
014 A000002 NORTHERN FUND DISTRIBUTORS, LLC
014 B000002 8-051242
014 A000003 PNC CAPITAL MARKETS, INC.
014 B000003 8-032493
014 A000004 J.J.B. HILLIARD W.L. LYONS, INC.
014 B000004 8-033133
014 A000005 PFPC DISTRIBUTORS, INC.
014 B000005 8-045467
014 A000006 MGI FUNDS DISTRIBUTOR, INC.
014 B000006 8-046960
014 A000007 BB&T AM Distributors, Inc.
PAGE 2
014 B000007 8-052396
014 A000008 BLACKROCK DISTRIBUTORS, INC.
014 B000008 8-048775
014 A000009 PERSIMMON SECURITIES
014 B000009 8-053071
014 A000010 PNC INVESTMENTS LLC

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014 B000010 8-066195
 014 A000011 MLPF&S AND OTHER ML BROKER/DEALER AFFILIATES
 014 B000011 8-7221
 014 A000012 Harris Williams LLC
 014 B000012 8-53380
 014 A000013 Mercantile Brokerage Services, Inc.
 014 B000013 8-18210
 014 A000014 Northern Trust Securities, Inc.
 014 B000014 8-23689
 014 A000015 PNC Brokerage Corp.
 014 B000015 8-46315
 015 A000001 THE BANK OF NEW YORK
 015 B000001 C
 015 C010001 LAKE MARY
 015 C020001 FL
 015 C030001 32746
 015 E010001 X
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 019 A000000 Y
 019 B000000 60
 019 C000000 BLACKROCKF
 020 A000001 SUSQUEHANNA INVESTMENT GROUP
 020 C000001 61
 020 A000002 LEHMAN BROTHERS
 020 B000002 13-2518466
 020 C000002 50
 020 A000003 UBS SECURITIES
 020 B000003 13-2932996
 020 C000003 41
 020 A000004 MORGAN STANLEY
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 020 C000004 28
 020 A000005 THINKORSWIM
 020 C000005 28
 020 A000006 COWEN & COMPANY, LLC
 020 C000006 25
 020 A000007 MERRILL LYNCH
 020 B000007 13-5674085
 020 C000007 23
 020 A000008 JP MORGAN CHASE BANK
 020 B000008 13-2624428
 020 C000008 23
 020 A000009 CREDIT SUISSE FIRST BOSTON
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 020 C000009 23
 PAGE 3
 020 A000010 MONTGOMERY SECURITIES
 020 B000010 94-1701676
 020 C000010 20
 021 000000 489
 022 A000001 MERRILL LYNCH
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077 O000000	N
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077 Q030000 N
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 080 B000000 GULF INSURANCE GROUP
 080 C000000 33000
 081 A000000 Y
 081 B000000 61
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 088 D000000 N
 SIGNATURE DONALD C. BURKE
 TITLE TREASURER