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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
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001 B000000 811-21702
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012 B000001 85-0000000
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013 A000001 DELOITTE & TOUCHE LLP
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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.
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014 A000014 Northern Trust Securities, Inc.
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014 A000015 PNC Brokerage Corp.
014 B000015 8-46315
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020 A000006 COWEN & COMPANY, LLC
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022 A000008 GOLDMAN SACHS & CO.
022 B000008 13-5108880
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077 Q030000 N
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080 A000000 VIGILANT INSURANCE COMPANY
080 B000000 GULF INSURANCE GROUP
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087 A010000 COMMON
087 A020000 09250W107
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088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 N
SIGNATURE DONALD C. BURKE
TITLE TREASURER