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BlackRock Health Sciences Trust

Form NSAR-B

December 29, 2009

PAGE 1  
000 B000000 10/31/2009  
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  
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008 A000001 BLACKROCK ADVISORS, LLC  
008 B000001 A  
008 C000001 801-47710  
008 D010001 WILMINGTON  
008 D020001 DE  
008 D030001 19809  
012 A000001 BNY MELLON SHAREOWNER SERVICES  
012 B000001 85-0000000  
012 C010001 JERSEY CITY  
012 C020001 NJ  
012 C030001 07310  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 NEW YORK  
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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 PFPC DISTRIBUTORS, INC.  
014 B000004 8-045467  
014 A000005 MGI FUNDS DISTRIBUTOR, INC.  
014 B000005 8-046960  
014 A000006 BB&T AM Distributors, Inc.  
014 B000006 8-052396  
014 A000007 BLACKROCK DISTRIBUTORS, INC.

PAGE 2  
014 B000007 8-048775  
014 A000008 PNC INVESTMENTS LLC  
014 B000008 8-066195  
014 A000009 NatCity Investments, Inc.  
014 B000009 8-35288  
014 A000010 Harris Williams LLC

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014 B000010 8-53380  
014 A000011 BLACKROCK CAPITAL MARKETS, LLC  
014 B000011 8-67827  
014 A000012 Red Capital Markets, Inc.  
014 B000012 8-31175  
014 A000013 BLACKROCK EXECUTION SERVICES  
014 B000013 8-00000  
014 A000014 BLACKROCK FUND DISTRIBUTION CO.  
014 B000014 8-00000  
015 A000001 THE BANK OF NEW YORK MELLON  
015 B000001 C  
015 C010001 NEW YORK  
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020 A000002 MORGAN STANLEY  
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020 A000003 CITIGROUP  
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020 A000004 DEUTSCHE BANK SECURITIES, INC.  
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020 A000006 LIQUIDNET  
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020 A000009 LEERINK SWANN  
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020 A000010 COWEN & COMPANY, LLC  
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078 000000 N  
080 A000000 VIGILANT INSURANCE COMPANY  
080 B000000 NATIONAL UNION FIRE INSURANCE COMPANY ET AL  
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088 C000000 N  
088 D000000 N  
SIGNATURE ANNE F. ACKERLEY  
TITLE PRESIDENT