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BlackRock Health Sciences Trust  
Form NSAR-B  
December 29, 2010

PAGE 1  
000 B000000 10/31/2010  
000 C000000 0001314966  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
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001 A000000 BLACKROCK HEALTH SCIENCES TRUST  
001 B000000 811-21702  
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002 A000000 100 BELLEVUE PARKWAY  
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008 A000001 BLACKROCK ADVISORS, LLC  
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008 D020001 DE  
008 D030001 19809  
012 A000001 BNY MELLON SHAREOWNER SERVICES  
012 B000001 85-0000000  
012 C010001 JERSEY CITY  
012 C020001 NJ  
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013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 NEW YORK  
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014 A000001 BLACKROCK CAPITAL MARKETS, LLC  
014 B000001 8-67827  
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014 A000003 BLACKROCK FUND DISTRIBUTION CO.  
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014 B000004 8-048436  
014 A000005 Harris Williams LLC  
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014 A000006 PNC CAPITAL MARKETS, INC.  
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014 A000007 PNC INVESTMENTS LLC  
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014 B000007 8-066195  
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015 C030001 10286

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020 A000005 GOLDMAN SACHS & CO.  
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020 A000006 DEUTSCHE BANK SECURITIES, INC.  
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020 A000007 Sanford C. Bernstein & Co., LLC  
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020 A000008 JEFFERIES & COMPANY  
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020 A000009 LIQUIDNET  
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020 A000010 BARCLAYS CAPITAL INC.  
020 B000010 06-1031656  
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022 A000007 BARCLAYS CAPITAL INC.  
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SIGNATURE ANNE F. ACKERLEY  
TITLE PRESIDENT