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BlackRock Health Sciences Trust  
Form NSAR-B  
December 29, 2009

PAGE 1  
000 B000000 10/31/2009  
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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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012 A000001 BNY MELLON SHAREOWNER SERVICES  
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012 C010001 JERSEY CITY  
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013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 NEW YORK  
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014 A000001 BLACKROCK INVESTMENTS, INC.  
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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  
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014 A000012 Red Capital Markets, Inc.  
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014 A000014 BLACKROCK FUND DISTRIBUTION CO.  
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020 A000010 COWEN & COMPANY, LLC  
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078 000000 N  
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SIGNATURE ANNE F. ACKERLEY  
TITLE PRESIDENT