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BLACKROCK SENIOR HIGH INCOME FUND, INC.

Form NSAR-B

April 29, 2010

PAGE 1
000 B000000 02/28/2010
000 C000000 0000896665
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 SENIOR HIGH INCOME FUND, INC.
001 B000000 811-07456
001 C000000 8004417762
002 A000000 100 BELLEVUE PARKWAY
002 B000000 WILMINGTON
002 C000000 DE
002 D010000 19809
003 000000 N
004 000000 N
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007 C010500 5
007 C010600 6
007 C010700 7
007 C010800 8
007 C010900 9
007 C011000 10
008 A000001 BLACKROCK ADVISORS, LLC
008 B000001 A
008 C000001 801-47710
008 D010001 WILMINGTON
008 D020001 DE
008 D030001 19809
008 A000002 BLACKROCK FINANCIAL MANAGEMENT, INC.
008 B000002 S
008 C000002 801-48433
008 D010002 NEW YORK
008 D020002 NY
008 D030002 10055
012 A000001 BNY MELLON SHAREOWNER SERVICES
012 B000001 85-05006
012 C010001 JERSEY CITY
012 C020001 NJ
012 C030001 07310
013 A000001 DELOITTE & TOUCHE LLP
013 B010001 PRINCETON
PAGE 2
013 B020001 NJ
013 B030001 08540
014 A000001 BB & T AM DISTRIBUTORS, INC.
014 B000001 8-52396
014 A000002 BLACKROCK CAPITAL MARKETS, LLC
014 B000002 8-67827

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014 A000003 BLACKROCK DISTRIBUTORS, INC.
014 B000003 8-48775
014 A000004 BLACKROCK INVESTMENTS, LLC
014 B000004 8-48436
014 A000005 HARRIS WILLIAMS LLC
014 B000005 8-53380
014 A000006 MGI FUNDS DISTRIBUTOR, INC.
014 B000006 8-46960
014 A000007 NATCITY INVESTMENTS, INC.
014 B000007 8-35288
014 A000008 NORTHERN FUNDS DISTRIBUTORS, LLC
014 B000008 8-51242
014 A000009 PNC CAPITAL MARKETS, INC.
014 B000009 8-32493
014 A000010 PNC INVESTMENTS LLC
014 B000010 8-66195
014 A000011 PFPC DISTRIBUTORS, INC.
014 B000011 8-45467
014 A000012 RED CAPITAL MARKETS, INC.
014 B000012 8-31175
014 A000013 BLACKROCK EXECUTION SERVICES
014 B000013 8-48719
014 A000014 BLACKROCK FUND DISTRIBUTION COMPANY
014 B000014 8-67795
015 A000001 BANK OF NEW YORK MELLON
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015 C010001 NEW YORK
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015 A000002 J.P. MORGAN CHASE BANK
015 B000002 S
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015 E010002 X
015 A000003 CIBC MELLON TRUST CO
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015 A000004 THE BANK OF NEW YORK MELLON
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019 C000000 BLKRAKADVSR
020 A000001 JONESTRADING INSTITUTIONAL SERVICES LLC
020 B000001 51-0484896
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020 A000002 RAFFERTY CAPITAL MARKETS, LLC
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020 A000003 KNIGHT LIBERTAS LLC
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020 A000004 BEDROK SECURITIES LLC
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020 A000005 CREDIT SUISSE SECURITIES (USA) L.L.C.
020 B000005 13-5659485

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022 A000001 BLK LIQUIDITY FUNDS, TEMPFUND, INSTIT. CLASS
022 B000001 52-0983343
022 C000001 121481
022 D000001 116844
022 A000002 J.P. MORGAN SECURITIES INC.
022 B000002 13-3299429
022 C000002 35645
022 D000002 19583
022 A000003 BANC OF AMERICA SECURITIES LLC
022 B000003 56-2058405
022 C000003 22160
022 D000003 10018
022 A000004 CREDIT SUISSE SECURITIES (USA) L.L.C.
022 B000004 13-5659485
022 C000004 19582
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022 A000005 BARCLAYS CAPITAL INC.
022 C000005 14720
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022 A000006 CITIGROUP GLOBAL MARKETS, INC.
022 B000006 11-2418191
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022 A000007 DEUTSCHE BANK SECURITIES INC.
022 B000007 13-2730828
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PAGE 4
022 D000007 10317
022 A000008 MORGAN STANLEY & CO. INCORPORATED
022 B000008 13-2655998
022 C000008 6992
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022 A000009 GOLDMAN, SACHS & CO.
022 B000009 13-5108880
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022 A000010 BLK LIQUIDITY SERIES, LLC CASH SWEEP SERIES
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 PAGE 5
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070	R010000	N
070	R020000	N
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 072 C000000 0

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074 R010000 0
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087	A030000	ARK
088	A000000	N
088	B000000	N
088	C000000	N
088	D000000	N
	PAGE	9
SIGNATURE	NEAL J. ANDREWS	
TITLE	CFO	