BLACKROCK SENIOR HIGH INCOME FUND, INC.
Form N-Q
July 27, 2012 UNITED STATES
UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM N-Q
QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY
Investment Company Act file number 811-07456
Name of Fund: BlackRock Senior High Income Fund, Inc. (ARK)
Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809
Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock Senior High Income Fund, Inc., 55 East 52 <sup>nd</sup> Street, New York, NY 10055
Registrant's telephone number, including area code: (800) 882-0052, Option 4
Date of fiscal year end: 02/28/2013
Date of reporting period: 05/31/2012
Item 1 – Schedule of Investments

Consolidated Schedule of Investments May 31, 2012 (Unaudited)

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

	Par		
Asset-Backed Securities	(000)		Value
American Airlines Pass-Through			
Trust, Series 2011-2, Class A,	TICD	205	e 241.266
8.63%, 4/15/23	USD	325	\$ 341,366
CSAM Funding, Series 2A,		500	502.000
Class B1, 7.05%, 10/15/16		500	503,900
Fraser Sullivan CLO Ltd., Series			
2012-7A, Class C, 4.47%,		405	250.942
4/20/23 (a)(b)		403	359,843
Gannett Peak CLO Ltd., Series			
2006-1X, Class A2, 0.83%,		495	403,425
10/27/20 (b) Goldentree Loan Opportunities VI		493	403,423
Ltd., Series 2012-6A, Class D,			
4.61%, 4/17/22 (a)(b)		650	601.055
Greyrock CDO Ltd., Series 2005-		030	601,055
1X, Class A2L, 0.89%,			
11/15/17 (b)		1,025	893,390
LCM LP (a)(b):		1,023	693,390
Series 11A, Class D2, 4.28%,			
4/19/22		700	624,400
Series 9A, Class E, 4.67%,		700	024,400
7/14/22		500	396,200
Symphony CLO Ltd., Series 2012-		300	370,200
9A, Class D, 4.62%,			
4/16/22 (a)(b)		525	487,042
Total Asset-Backed Securities 2.0%		323	4,610,621
2000 2000 2000 2000 2000			1,010,021
Common Stocks (c)		Shares	
Chemicals 0.0%			
GEO Specialty Chemicals, Inc.		142,466	65,534
Containers & Packaging 0.1%			
Smurfit Kappa Plc		18,171	114,550
Metals & Mining 0.1%			
Euramax International		935	271,121
Paper & Forest Products 0.3%			
Ainsworth Lumber Co. Ltd.		562,190	664,058
Software 0.0%			
HMH Holdings/EduMedia		75,676	757
Total Common Stocks 0.5%			1,116,020
	Par		
Corporate Bonds	(000)	)	Value
Aerospace & Defense 0.5%	(000)		, mine
Hustinete Lealle Industria Lea			

Aerospace & Defense 0.5%			
Huntington Ingalls Industries, Inc.,			
7.13%, 3/15/21	USD	425	\$ 440,938
Kratos Defense & Security			
Solutions, Inc., 10.00%,			
6/01/17		692	733,520
			1,174,458
Airlines 0.3%			
Delta Air Lines, Inc., Series 2009-			
1, Class B, 9.75%, 6/17/18		89	94,746

United Air Lines Inc. 12.75%		
United Air Lines, Inc., 12.75%, 7/15/12	589	595,140
113/12	367	689,886
Auto Components 1.7%		007,000
Delphi Corp., 6.13%, 5/15/21	290	308,850
Icahn Enterprises LP:		200,020
7.75%, 1/15/16	110	115,500
8.00%, 1/15/18	2,740	2,900,975
Titan International, Inc., 7.88%,	,	, ,
10/01/17	490	507,150
Venture Holdings Co. LLC (c)(d):		
12.00%, 7/01/49	700	
Series B, 9.50%, 7/01/05	3,325	
		3,832,475
Biotechnology 0.0%		
QHP Royalty Sub LLC, 10.25%,		
3/15/15 (a)	73	73,251
Building Products 0.4%		
Building Materials Corp. of America (a):		
7.00%, 2/15/20	485	509,250
6.75%, 5/01/21	410	419,225
		928,475
Capital Markets 0.9%		
American Capital Ltd., 7.96%,		
12/31/13 (e)	600	601,686
E*Trade Financial Corp., 12.50%,		
11/30/17	935	1,072,913
KKR Group Finance Co., 6.38%,	•00	204.252
9/29/20 (a)	280	301,372
CI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1,975,971
Chemicals 4.4%		
American Pacific Corp., 9.00%,	610	(0( 050
2/01/15	610	606,950
Celanese US Holdings LLC, 5.88%, 6/15/21	745	776,663
GEO Specialty Chemicals, Inc. (a):	743	770,003
7.50%, 3/31/15 (f)(g)	1,869	2,223,661
10.00%, 3/31/15	1,839	1,838,720
Hexion US Finance Corp., 6.63%,	1,037	1,030,720
4/15/20 (a)	905	916,312
Huntsman International LLC,	703	710,512
8.63%, 3/15/21	395	442,400
		,

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

	Par		
Corporate Bonds	(000)		Value
Chemicals (concluded)			
Ineos Finance Plc (a):			
8.38%, 2/15/19	USD	805	\$ 827,138
7.50%, 5/01/20		375	371,250
Kinove German Bondco GmbH,			
9.63%, 6/15/18 (a)		400	409,000
LyondellBasell Industries NV (a):			
6.00%, 11/15/21		535	572,450
5.75%, 4/15/24		935	958,375
NOVA Chemicals Corp., 8.63%,			
11/01/19		300	335,250
			10,278,169
Commercial Banks 0.5%			
CIT Group, Inc.:			
5.00%, 5/15/17		330	324,225
5.50%, 2/15/19 (a)		760	739,100
			1,063,325
Commercial Services & Supplies 1.4%			
ARAMARK Holdings Corp., 8.63%,			
5/01/16 (a)(f)		330	337,428
AWAS Aviation Capital Ltd., 7.00%,			
10/17/16 (a)		500	516,151
Brickman Group Holdings, Inc.,			
9.13%, 11/01/18 (a)		25	24,000
Covanta Holding Corp., 6.38%,			
10/01/22		420	435,489
The Geo Group, Inc., 7.75%,		450	400.255
10/15/17		450	480,375
Iron Mountain, Inc., 7.75%, 10/01/19		220	244.050
		230	244,950
Mead Products LLC / ACCO Brands		675	(02.5(2
Corp., 6.75%, 4/30/20 (a)		675	693,562
Mobile Mini, Inc., 7.88%, 12/01/20		335	251 750
		165	351,750
West Corp., 8.63%, 10/01/18		103	172,013 3,255,718
Communications Equipment 0.1%			3,233,710
Hughes Satellite Systems Corp.,			
6.50%, 6/15/19		320	324,800
Construction Materials 0.4%		320	321,000
HD Supply, Inc., 8.13%,			
4/15/19 (a)		810	844,425
Consumer Finance 0.2%		010	5, .20
Ford Motor Credit Co. LLC:			
7.00%, 4/15/15		140	157,150
6.63%, 8/15/17		300	348,342
			505,492
Containers & Packaging 1.0%			
Ardagh Packaging Finance Plc,			
9.13%, 10/15/20 (a)		300	309,000
Ball Corp., 6.75%, 9/15/20		325	352,625
1, ,			,o <b></b> 0

Berry Plastics Corp., 8.25%, 11/15/15 540 571,050

Company Poud		Pa		<b>V</b> -1
Corporate Bonds Containers & Packaging (concluded)	`	(00	U)	Value
Crown Americas LLC, 6.25%,	)			
2/01/21		USD	535	\$ 579,137
Sealed Air Corp. (a):		ОЗД	333	φ 3/9,13/
8.13%, 9/15/19			405	439,425
8.38%, 9/15/21			110	121,000
8.36 /0, 3/13/21			110	2,372,237
Diversified Consumer Services 0.	0/ <sub>0</sub>			2,312,231
ServiceMaster Co., 8.00%,	170			
2/15/20			435	456,206
Diversified Financial Services 3.3	<b>7</b>		733	430,200
Ally Financial, Inc.:	0			
			3,670	3,926,900
8.30%, 2/12/15 8.00%, 11/01/31			230	258,750
8.00%, 11/01/31			370	413,536
CNG Holdings, Inc., 9.38%,			260	261 200
5/15/20 (a)			260	261,300
DPL, Inc., 7.25%, 10/15/21 (a)			95	103,313
Reynolds Group Issuer, Inc. (a):				
7.13%, 4/15/19			560	575,400
9.88%, 8/15/19			1,065	1,062,337
6.88%, 2/15/21			695	705,425
8.50%, 2/15/21			100	92,750
WMG Acquisition Corp., 9.50%,				
6/15/16 (a)			105	112,087
				7,511,798
Diversified Telecommunication Ser	vices 1.3%			
ITC Deltacom, Inc., 10.50%,				
4/01/16			520	547,300
Level 3 Financing, Inc.:				
4.51%, 2/15/15 (b)			1,295	1,233,487
8.13%, 7/01/19			1,130	1,130,000
				2,910,787
Energy Equipment & Services 2.4	%			
Calfrac Holdings LP, 7.50%,				
12/01/20 (a)			920	864,800
Cie Generale de Geophysique -				
Veritas, 6.50%, 6/01/21			1,105	1,082,900
Frac Tech Services LLC, 8.13%,			,	, ,
11/15/18 (a)			625	618,750
Gulfmark Offshore, Inc., 6.38%,				
3/15/22 (a)			70	70,350
Hornbeck Offshore Services, Inc.,			, ,	,
5.88%, 4/01/20 (a)			140	137,200
Key Energy Services, Inc., 6.75%,			1.0	157,200
3/01/21			380	381,425
MEG Energy Corp., 6.50%,			300	301,123
3/15/21 (a)			490	499,800
Oil States International, Inc.,			470	477,000
6.50%, 6/01/19			270	278,775
Peabody Energy Corp., 6.25%,			270	210,113
			1 000	1 007 075
11/15/21 (a)			1,090	1,087,275
Precision Drilling Corp.:			120	121.050
6.63%, 11/15/20			130	131,950

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

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	Par		
Corporate Bonds	(000)	Value	
Energy Equipment & Services (concluded)			
Precision Drilling Corp. (concluded):			
6.50%, 12/15/21	USD 445	\$ 448,	
		5,601,	562
Food Products 0.2%			
Constellation Brands, Inc.,			
6.00%, 5/01/22	245	260,	313
Post Holdings, Inc., 7.38%,			
2/15/22 (a)	140	142,	450
		402,	,763
Health Care Equipment & Supplies 0.8%			
Bausch & Lomb, Inc., 9.88%,			
11/01/15	65	68,0	,088
Biomet, Inc., 10.38%, 10/15/17 (f)	435	463,0	
DJO Finance LLC:		,	
10.88%, 11/15/14	150	152,0	625
8.75%, 3/15/18 (a)	115	115,	
7.75%, 4/15/18	30		,225
Fresenius Medical Care US Finance II,	30	27,.	223
Inc. (a): 5.63%, 7/31/19	360	257	200
·		357,3	
5.88%, 1/31/22	340	338,3	
Teleflex, Inc., 6.88%, 6/01/19	250	265,0	
W M C B 11 0 C 1 And		1,784,	116
Health Care Providers & Services 2.7%			
Aviv Healthcare Properties LP:			
7.75%, 2/15/19	235	244,	
7.75%, 2/15/19 (a)	130	133,9	,900
HCA, Inc.:			
8.50%, 4/15/19	25		,594
6.50%, 2/15/20	1,030	1,087,9	
7.88%, 2/15/20	1,174	1,288,	465
5.88%, 3/15/22	785	779,	113
Omnicare, Inc., 7.75%, 6/01/20	695	762,	763
Tenet Healthcare Corp.:			
10.00%, 5/01/18	430	490,2	,200
8.88%, 7/01/19	1,015	1,129,	187
Vanguard Health Holding Co. II			
LLC, 7.75%, 2/01/19 (a)	300	294,0	,000
		6,237,	559
Health Care Technology 0.9%		, ,	
IMS Health, Inc., 12.50%,			
3/01/18 (a)	1,730	2,024,	100
Hotels, Restaurants & Leisure 1.1%	1,700	2,02.,	100
Affinity Gaming LLC/Affinity			
Gaming Finance Corp., 9.00%,			
5/15/18 (a)	125	125,0	000
Caesars Entertainment Operating Co.,	123	123,	000
* -			
Inc.:	75	70	.688
11.25%, 6/01/17	75	,	
8.50%, 2/15/20 (a)	905	901,0	OUO

Carlson Wagonlit BV, 6.88%, 6/15/19 (a) 200 199,000

	,	D		
Corporate Bonds		Par 000)	Value	
Hotels, Restaurants & Leisure (concluded)		,		
Diamond Resorts Corp., 12.00%,				
8/15/18	USD	540	\$ 581,850	0
Little Traverse Bay Bands of				
Odawa Indians, 9.00%, 8/31/20 (a)		282	256,62	0
Tropicana Entertainment LLC,		202	230,02	.0
9.63%, 12/15/14 (c)(d)		220		
Wynn Las Vegas LLC, 5.38%,				
3/15/22 (a)		525	508,59	
W 1.115 11 400			2,652,35	8
Household Durables 1.0%				
Beazer Homes USA, Inc., 12.00%, 10/15/17		860	926,65	n
Libbey Glass, Inc., 6.88%,		800	720,03	
5/15/20 (a)		90	90,22	5
Standard Pacific Corp., 8.38%,			,	
1/15/21		1,120	1,198,40	
			2,215,27	5
Independent Power Producers & Energy Traders 3.4%				
AES Corp.:		155	172.05	0
7.75%, 10/15/15 9.75%, 4/15/16		155 674	172,056 790,26	
The, 7.38%, 7/01/21 (a)		70	75,60	
Calpine Corp. (a):		, 0	75,00	
7.25%, 10/15/17		350	369,25	0
7.50%, 2/15/21		190	198,55	0
Energy Future Holdings Corp.,				
10.00%, 1/15/20		775	823,43	7
Energy Future Intermediate				
Holding Co. LLC, 10.00%, 12/01/20		4,160	4,482,40	Ω
Laredo Petroleum, Inc.:		4,100	4,462,40	U
9.50%, 2/15/19		520	577,20	0
7.38%, 5/01/22 (a)		215	219,83	
QEP Resources, Inc., 5.38%,				
10/01/22		178	173,99	
			7,882,58	5
Industrial Conglomerates 1.5%				
Sequa Corp. (a): 11.75%, 12/01/15		1,430	1,517,58	Q
13.50%, 12/01/15		1,430	2,048,18	
13.3076, 12/01/13		1,230	3,565,77	
Insurance 0.6%			-,,-	
CNO Financial Group, Inc., 9.00%,				
1/15/18 (a)		851	902,06	0
Genworth Financial, Inc., 7.63%,				_
9/24/21		370	359,07	0
MPL 2 Acquisition Canco, Inc., 9.88%, 8/15/18 (a)		220	189,20	0
7.00 /U, 0/13/10 (a)		220	1,450,33	
IT Services 0.7%			1,750,55	
First Data Corp.:				
7.38%, 6/15/19 (a)		445	445,00	0

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MAY 31, 2012

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	Par		
Corporate Bonds	(000)		Value
IT Services (concluded)			
First Data Corp. (concluded):	HOD	(51 f	(21.470
8.25%, 1/15/21 (a)		651 \$	631,470
12.63%, 1/15/21		288	271,440
SunGard Data Systems, Inc.,		215	222.055
7.63%, 11/15/20		315	322,875
Marking and 0.00%			1,670,785
Machinery 0.9%			
UR Financing Escrow Corp. (a):		160	470.005
5.75%, 7/15/18		462	470,085
7.38%, 5/15/20	1	300	307,500
7.63%, 4/15/22	1,	,245	1,273,012
M.P. (16)			2,050,597
Media 6.1%			
AMC Networks, Inc., 7.75%,		100	210,000
7/15/21 (a)		190	210,900
CCO Holdings LLC, 7.88%,		105	424.262
4/30/18		405	434,362
Cengage Learning Acquisitions,		500	400.750
Inc., 11.50%, 4/15/20 (a)		500	498,750
Checkout Holding Corp., 0.01%,			
11/15/15 (a)(h)		570	222,300
Cinemark USA, Inc., 8.63%,		40=	242062
6/15/19		195	212,063
Clear Channel Worldwide Holdings, Inc.:			
9.25%, 12/15/17		340	363,800
7.63%, 3/15/20 (a)		,195	1,141,225
Series B, 9.25%, 12/15/17	4,	,301	4,623,575
DISH DBS Corp., 5.88%,			
7/15/22 (a)		335	326,625
Interactive Data Corp., 10.25%,			
8/01/18		810	897,075
Lamar Media Corp., 5.88%,			274704
2/01/22 (a)		255	256,594
NAI Entertainment Holdings LLC,			
8.25%, 12/15/17 (a)		530	577,700
Nielsen Finance LLC, 7.75%,			
10/15/18		640	688,000
ProQuest LLC, 9.00%, 10/15/18 (a)		220	189,200
Unitymedia Hessen GmbH & Co. KG:			
8.13%, 12/01/17 (a)		,500	1,582,500
7.50%, 3/15/19		540	569,708
Virgin Media Secured Finance Plc,			
6.50%, 1/15/18	1.	,250	1,362,500
			14,156,877
Metals & Mining 1.4%			
FMG Resources August 2006 Property			
Ltd. (a):			
6.88%, 2/01/18		230	225,975
6.88%, 4/01/22		425	409,063
		255	257,550

Global Brass and Copper, Inc., 9.50%, 6/01/19 (a)

Kaiser Aluminum Corp., 8.25%,

6/01/20 (a) 190,950

	Par	
Corporate Bonds	(000)	Value
Metals & Mining (concluded)		
New Gold, Inc., 7.00%,		
4/15/20 (a)	USD 65	
Novelis, Inc., 8.75%, 12/15/20	1,895	5 2,003,962
RathGibson, Inc., 11.25%,		
2/15/14 (c)(d)	2,175	
		3,153,800
Oil, Gas & Consumable Fuels 7.2%		
Alpha Natural Resources, Inc.:		
6.00%, 6/01/19	115	
6.25%, 6/01/21	310	275,900
Berry Petroleum Co., 6.38%,	100	102 (00
9/15/22	180	183,600
Chaparral Energy, Inc., 7.63%,		
11/15/22 (a)	115	5 117,588
Chesapeake Energy Corp.:		
6.63%, 8/15/20	290	,
6.88%, 11/15/20	150	,
6.13%, 2/15/21	235	5 220,900
Chesapeake Midstream Partners		
LP, 6.13%, 7/15/22	415	394,250
Chesapeake Oilfield Operating LLC,		
6.63%, 11/15/19 (a)	4	5 4,325
Coffeyville Resources LLC, 9.00%,		
4/01/15 (a)	105	5 111,825
Concho Resources, Inc., 5.50%,		
10/01/22	210	206,325
Consol Energy, Inc.:		
8.25%, 4/01/20	1,110	
6.38%, 3/01/21	230	210,450
Crosstex Energy LP:		
8.88%, 2/15/18	55	
7.13%, 6/01/22 (a)	195	5 193,538
Denbury Resources, Inc., 8.25%,		
2/15/20	26	5 28,080
Energy XXI Gulf Coast, Inc., 7.75%,		
6/15/19	665	671,650
Everest Acquisition LLC / Everest		
Acquisition Finance, Inc. (a):		
6.88%, 5/01/19	170	
9.38%, 5/01/20	125	
Forest Oil Corp., 8.50%, 2/15/14	110	115,500
Hilcorp Energy I LP, 7.63%,		
4/15/21 (a)	1,105	5 1,154,725
Holly Energy Partners LP, 6.50%,		
3/01/20 (a)	80	79,600
Kodiak Oil & Gas Corp., 8.13%,		
12/01/19 (a)	385	396,550
Linn Energy LLC:		
6.25%, 11/01/19 (a)	1,460	
8.63%, 4/15/20	190	,
7.75%, 2/01/21	485	5 495,912
Newfield Exploration Co., 5.75%,		
1/30/22	540	568,350

Northern Oil and Gas, Inc., 8.00%, 6/01/20 (a)

265

263,675

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MAY 31, 2012

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	Par	
Corporate Bonds	(000)	Value
Oil, Gas & Consumable Fuels (concluded)		
Oasis Petroleum, Inc.:		
7.25%, 2/01/19	USD 170	\$ 175,100
6.50%, 11/01/21	155	155,000
Offshore Group Investments Ltd.:		
11.50%, 8/01/15 (a)	210	223,650
11.50%, 8/01/15	165	175,725
OGX Petroleo e Gas Participacoes SA		
(a):		
8.50%, 6/01/18	2,695	2,593,937
8.38%, 4/01/22	295	279,513
Petrohawk Energy Corp., 7.25%, 8/15/18	275	313,423
Pioneer Natural Resources Co., 7.20%, 1/15/28	570	703,545
Plains Exploration & Production Co., 6.75%, 2/01/22	90	89,100
Range Resources Corp.:	90	69,100
5.75%, 6/01/21	645	664,350
5.00%, 8/15/22	298	286,080
	298	200,000
Samson Investment Co., 9.75%, 2/15/20 (a)	370	368,150
SandRidge Energy, Inc.:		200,220
7.50%, 3/15/21	120	116,400
8.13%, 10/15/22 (a)	110	108,350
SESI LLC:		,
6.38%, 5/01/19	280	294,000
7.13%, 12/15/21 (a)	275	299,750
SM Energy Co., 6.50%, 11/15/21	225	230,063
Targa Resources Partners LP,		,
6.88%, 2/01/21	250	257,500
,		16,606,204
Paper & Forest Products 0.2%		,,
Clearwater Paper Corp., 10.63%,		
6/15/16	365	406,975
Longview Fibre Paper & Packaging,		,
Inc., 8.00%, 6/01/16 (a)	145	143,913
, 0.00, 1, 0.00, 100		550,888
Pharmaceuticals 0.3%		,
Valeant Pharmaceuticals		
International (a):		
6.50%, 7/15/16	380	387,600
7.25%, 7/15/22	350	329,000
		716,600
Real Estate Investment Trusts (REITs) 0.4%		, , , ,
Felcor Lodging LP, 6.75%,		0.20.0==
6/01/19	950	952,375
Real Estate Management & Development 0.8%		1 1/1 0==
Realogy Corp., 7.63%, 1/15/20 (a)	1,130	1,161,075
Shea Homes LP, 8.63%, 5/15/19	655	682,838
		1,843,913

**Road & Rail** 1.1% Avis Budget Car Rental LLC, 8.25%, 1/15/19 160 165,600

	Pa			
Corporate Bonds	(00	00)	V	alue
Road & Rail (concluded)				
Florida East Coast Railway Corp.,	HCD	200	ф	205.000
8.13%, 2/01/17	USD	200	\$	205,000
The Hertz Corp.:		700		010 175
7.50%, 10/15/18		780		812,175
6.75%, 4/15/19		135		138,038
6.75%, 4/15/19 (a)		150		153,375
7.38%, 1/15/21		1,095		1,148,381
Software 0.6%				2,622,569
Lawson Software, Inc., 9.38%,				
4/01/19 (a)		1,335		1,375,050
Specialty Retail 0.7%		1,333		1,373,030
Claire s Stores, Inc., 9.00%,				
3/15/19 (a)		225		225,000
Penske Automotive Group, Inc.,		223		223,000
7.75%, 12/15/16		845		874,575
Sally Holdings LLC:		015		071,575
6.88%, 11/15/19 (a)		350		372,750
5.75%, 6/01/22		160		161,800
511570, OF OTI 22		100		1,634,125
Textiles, Apparel & Luxury Goods 0.2%				1,03 1,123
Levi Strauss & Co., 6.88%,				
5/01/22 (a)		140		138,950
PVH Corp., 7.75%, 11/15/23		215		246,175
1 + 11 Colp., + 11 + 10 + 20		210		385,125
Transportation Infrastructure 0.1%				200,120
Aguila 3 SA, 7.88%, 1/31/18 (a)		176		179,520
Wireless Telecommunication Services 4.2%				-,,,,,,,
Cricket Communications, Inc.,				
7.75%, 5/15/16		1,770		1,867,350
Digicel Group Ltd. (a):		,		, ,
12.00%, 4/01/14		800		880,000
8.25%, 9/01/17		270		271,350
Intelsat Jackson Holdings SA,				
7.25%, 10/15/20 (a)		1,450		1,439,125
MetroPCS Wireless, Inc., 6.63%,				
11/15/20		460		445,050
Sprint Capital Corp., 6.88%,				
11/15/28		2,440		1,811,700
Sprint Nextel Corp. (a):				
9.00%, 11/15/18		1,150		1,244,875
7.00%, 3/01/20		1,725		1,737,937
				9,697,387
Total Corporate Bonds 56.1%			12	29,609,712
Floating Rate Loan Interests (b)				
Aerospace & Defense 0.3%				
TransDigm, Inc.:				
Add on Term Loan B2, 4.00%,				
2/14/17		189		187,868

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

Acrospace & Defense (concluded)   TransDign, Inc. (concluded)   TransDign, Inc. (concluded)   TransDign, Inc. (concluded)   2/14/17	Floating Rate Loan Interests (b)	Par (000)		Value
Brans Digin, Inc. (concluded):         Section (1981)		(000)		value
Term Loan (First Lien), 4.00%, 2014   1.005   1.005   3.054, 364   1.006   1.005, 3654, 3654   3.006   1.006, 36554, 3654   3.006   3.006, 36554, 3654   3.006   3.006, 36554, 3654, 3654, 365544, 365544, 365544, 365544, 365544, 365544, 365544, 365544, 365544, 365544, 365544				
### Airlines 0.4%  Delta Air Lines, Inc., Credit - New Term Loan B, 5.50% 4/20/17  Auto Compones 2.3%  Allison Transmission, Inc., Term Loan B, 2.7%, 8/07/14  Allison Transmission, Inc., Term Loan, 6.25%, 4/27/18  Allison Transmission, Inc., Term Loan, 6.25%, 4/27/18  Allison Transmission, Inc., Term Loan, 6.25%, 4/27/18  Allison Term Loan, 6.25%, 4/27/18  Allison Term Loan, 6.50%, 7/28/17  861  832,703  862  832,703  863  832,703  864  872,728/17  890  814,500  814,500  864, 7728/17  890  814,50				
Airlines 0.4%         Airlines           Delta Air Lines, Inc., Credit - New         1,006         1,000,337           Auto Components 2.3%         1,007         1,741,080           Loan B, 2.75%, 8,07714         1,775         1,741,080           Loan B, 2.75%, 8,07714         1,75         1,741,080           Laux Corem Loan, 6.25%, 42718         105         104,826           Autopats Holdings Lut:         15         10,826           First Lien Term Loan, 6.50%, 72,817         861         832,703           Second Lien Term Loan, 6.50%, 72,8217         80         11,800           Federal-Mogul Corp., Term Loan B, 200         814,500         14,800           Federal-Mogul Corp., Term Loan B, 200         90         408,776           Lien, 4,75%, 4/3019         95         919,724           The Goodyear Tire & Rubber         5,341,43           Company, Term Loan B, 50%, 600/1,127/17         405         492,525           Shaeffler AG, Term Loan B, 45%, 600/1,127/17         65         645,743           Bildidap Products 1.36         47         48         408,393           Armstrong World Industries, Inc., Ferm Loan B, 4,00%, 309/18         47         408,393         570,281           Goodman Global, Inc.: Initial Term Loan (First Lien), 5,75%, 10/2816	2/14/17	USD 6	01 \$	595,496
Delta Air Lines, Inc., Credit - New   1,000   1,000, 307   1,000   1,000, 307   1				783,364
Term Loan B, 5.90%, 4/20/17         1,000,337           Auto Components 2.3%				
Auto Components 2.3%         Allison Transmission, Inc., Term         1,775         1,741,089           Allison Transmission, Inc., Term         1,741,089         1,741,089           August LuxUK Holding Co. Sarl,         1         10,806           4/27/18         10         104,826           Autoparts Holdings Ltd.:         1         1           First Lien Term Loan, 6,50%,         861         832,703           Second Lien Term Loan,         90         814,500           1,0.50%, 1/29/18         49         468,705           Federal-Mogul Corp., Term Loan B,         49         468,705           2,13%, 1/2,29/14         49         468,705           TheGoodyard Tire & Rubber         5         91,724           Compay, Term Loan (Second         2         492,525           Schaeffler AG, Term Loan C2,         49         49,2525           6,00%, 1/27/17         65         645,743           Biotechnology         0,3         492,525           Stotell Inc., Term Loan B, 4,50%,         401,74         468,399           For Holan B, 4,50%,         401,74         468,399           For Holan B, 4,50%,         401,809         401,809           For Loan B, 4,00%, 3,007 IR         30,809         30,809<				
Allian Transmission, Inc., Term   1,715, 1,741,085   1,810,081,1275, 840714   1,810,181,181,181,181,181,181,181,181,18		1,0	06	1,000,337
Loan B, 2.75%, 807.714         1,775         1,741,089           August LaxUK Holding Co. Sarl,         1         104,826           Luxco Term Loan, 6.25%,         1         103         104,826           4/27/18         105         104,826           Autoparts Holdings Ltd.:         ************************************				
August LuxUK Holding Co. Sarl,   101   104.826   104.826   105   104.826   104.826   105   104.826   105   104.826   105   104.826   105   104.826   105   104.826   105   105.826   105		1.7	75	1 7/1 090
Luxco Term Loan, 6.25%, 427/18         105         104,826           427/18 Holdings Ltd.:         105         104,826           First Lien Term Loan, 6.50%, 72/28/17         861         832,703           Second Lien Term Loan,         900         814,500           1,50%, 1/29/18         900         814,500           Federal-Mogul Corp., Term Loan B,         499         468,705           2,18%, 1/29/14         499         468,705           TheGoodyear Tire & Rubber         950         919,724           Company, Term Loan (Second         2         492,525           Schaeffler AG, Term Loan C2,         495         492,525           6,0%, 1/27/17         495         492,525           6,0%, 1/27/17         655         645,743           Biotechnology 0.3%         492,525           Grifols, Inc., Term Loan B, 4.50%,         655         645,743           Biotechnology 0.3%         47         468,399           CPG International, Inc., Term Loan         47         468,399           CPG International, Inc., Term Loan         593         570,281           Goodman Global, Inc.         575%, 10/28/16         16,29         1,622,850           Term Loan (First Lien),         575%, 10/28/16		1,7	13	1,741,069
AZ7/18				
Autoparts Holdings Ltd.: First Lien Term Loan, 6.50%, 7/28/17   \$861   \$832,703     \$8610   \$832,703     \$8610   \$832,703     \$8600   \$814,500     \$10,50%, 1/29/18   90   \$814,500     \$10,50%, 1/29/18   499   468,706     \$10,50%, 1/29/14   499   468,706     \$10,50%, 1/29/14   499   468,706     \$10,50%, 1/29/14   499   468,706     \$10,50%, 1/29/14   499   468,706     \$10,50%, 1/29/14   499   408,706     \$10,50%, 1/29/14   499   408,706     \$10,50%, 1/29/14   499   408,706     \$10,50%, 1/29/14   499   408,706     \$10,50%, 1/29/14   499   408,706     \$10,50%, 4/30/19   950   919,724     \$10,50%, 4/30/19   950   919,724     \$10,50%, 4/30/19   495   492,525     \$10,50%, 1/27/17   495   492,525     \$10,50%, 1/27/17   495   492,525     \$10,50%, 1/27/17   495   492,525     \$10,50%, 1/27/17   505   545,743     \$10,60%, 1/27/17   595   545,743     \$10,60%, 1/27/17   593   570,281     \$10,60%, 1/27/17   593   570,281     \$10,60%, 1/27/17   593   382     \$10,60%, 1/27/17   382   385,064     \$10,60%, 1/27/17   382   385,064     \$10,60%, 1/27/17   383   385,064     \$10,60%, 1/27/		10	05	104.826
First Lien Term Loan, 6.50%, 7/28/17         861         832,703           7/28/17         861         832,703           Second Lien Term Loan, 10.50%, 1/29/18         90         814,500           Federal-Mogul Corp., Term Loan B, 2.18%, 1/29/14         499         468,776           TheGoodyear Tire & Rubber         The Goodyear Tire & Rubber         50         919,724           Company, Term Loan Ce, 6         55         919,724           Schaeffler AG, Term Loan C2, 6.00%, 1/27/17         495         492,525           6.00%, 1/27/17         655         645,743           8 biotechnology 0.3%         495         492,525           6.00/1/17         655         645,743           8 building Products 1.3%         47         468,399           CPG International, Inc., Term Loan B, 4.00%, 3/09/18         47         468,399           CPG International, Inc., Term Loan B, 4.00%, 3/09/18         59         570,281           Cern Loan B, 4.00%, 3/09/18         1,629         1,622,850           Coodman Global, Inc.:         382         385,064           1,575%, 10/28/16         1,629         1,622,850           Capital Markets 1.1%         382         385,064           1,618 Lien), 6.25%, 12/16/16         799         799,363				20.,020
Second Lien Term Loan,   10.50%, 17.9918   900				
10.50%, 1/29/18   900   814,500   Federal-Mogul Corp., Term Loan B, 2,18%, 1/229/14   499   468,776   46	7/28/17	8	61	832,703
Federal-Mogul Corp., Term Loan B, 2.18%, 12729/14	Second Lien Term Loan,			
2.18%, 12/29/14   499   468,776   TheGoodyear Tire & Rubber   700   70		9	00	814,500
The Goodyear Tire & Rubber   Company, Term Loan (Second   1610, 1475, 4730/19   950   919,724   162,755, 4730/19   950   919,724   162,755, 4730/19   950   919,724   162,755, 4730/19   950   919,724   162,755, 1725				
Company, Term Loan (Second         950         919,724           Lien), 4.75%, 4/30/19         950         919,724           Schaeffler AG, Term Loan C2,         495         492,525           6.00%, 1/27/17         495         492,525           Forfols, Inc., Term Loan B, 4.50%, 6/01/17         655         645,743           Building Products 1.3%         474         468,399           Armstrong World Industries, Inc., Term Loan B, 4.00%, 3/09/18         474         468,399           CPG International, Inc., Term Loan B, 6.00%, 2/18/17         593         570,281           Goodman Global, Inc.:         1,629         1,622,850           Term Loan (First Lien), 5.75%, 10/28/16         1,629         1,622,850           Term Loan (Second Lien), 9.00%, 10/30/17         382         385,064           9.00%, 10/30/17         382         385,064           1,525         1,629         799,363           Nuveen Investments, Inc.:         799         799,363           Nuveen Investments, Inc.:         (First Lien), 6,25%, 12/16/16         799         799,363           Nuveen Investments, Inc.:         (First Lien), 6,25%, 12/16/16         799         799,363           Nuveen Investments, Inc.:         (First Lien), 6,25%, 12/16/16         799         799,363 </td <td></td> <td>4</td> <td>99</td> <td>468,776</td>		4	99	468,776
Lien, 4.75%, 4/30/19       950       919,724         Schaeffler AG, Term Loan C2,       495       492,525         6.00%, 1/27/17       495       492,525         Biotechnology 0.3%       Triple of the products 1.3%         Building Products 1.3%       Triple of the products 1.3%         Armstrong World Industries, Inc., Term Loan B, 4.00%, 3/09/18       474       468,399         CPG International, Inc., Term Loan       593       570,281         Goodman Global, Inc::       Initial Term Loan (First Lien),         5.75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       382       385,064         9.00%, 10/30/17       382       385,064         Capital Markets 1.1%       HarbourVest Partners, Term Loan         (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       799       799,363         (First Lien), 6.25%, 12/16/16       371       364,138         Incremental Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan, 5.97%, 5/12/17       295       294,262         Ferm Loan, 5.97%, 5/12/17       1,004       990,315				
Schaeffler AG, Term Loan C2,       495       492,525         6.00%, 1/27/17       495       492,525         Biotechnology 0.3%         Grifols, Inc., Term Loan B, 4.50%,       655       645,743         6/01/17       655       645,743         Building Products 1.3%         Armstrong World Industries, Inc.,         Term Loan B, 4.00%, 3/09/18       474       468,399         CPG International, Inc., Term Loan       593       570,281         Goodman Global, Inc.:       593       570,281         Goodman Global, Inc.:       1,629       1,622,850         Term Loan (First Lien),       382       385,064         9.00%, 10/30/17       382       385,064         Ferm Loan (Second Lien),       382       385,064         9.00%, 10/30/17       382       385,064         Capital Markets 1.1%         HarbourVest Partners, Term Loan       799       799,363         Nuveen Investments, Inc.:       (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), 7 crm Loan, 5.97%, 5/13/17       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         7 crm Loan, 5.97%, 5/12/17		0	50	010 724
6.00%, 1/27/17       495       492,525         Biotechnology 0.3%         Grifols, Inc., Term Loan B, 4.50%,       6/01/17       655       645,743         Building Products 1.3%         Armstrong World Industries, Inc.,         Term Loan B, 4.00%, 3/09/18       474       468,399         CPG International, Inc., Term Loan       593       570,281         Goodman Global, Inc.:       500,00%, 2/18/17       593       570,281         5.75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       382       385,064         9.00%, 10/30/17       382       385,064         9.00%, 10/30/17       382       385,064         4       406,25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315		9.	30	919,724
Side chology 0.3%   Side		4	95	492 525
Biotechnology 0.3%         Grifols, Inc., Term Loan B, 4.50%,       655       645,743         60/1/17       655       645,743         Building Products 1.3%       3       547,44       468,399         Armstrong World Industries, Inc.,       474       468,399         CPG International, Inc., Term Loan       593       570,281         Goodman Global, Inc.:       593       570,281         Initial Term Loan (First Lien),       5,75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       382       385,064         9,00%, 10/30/17       382       385,064         Apploated Term Loan       799       799,363         Nuveen Investments, Inc.:       (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315	0.00%, 1/2//1/		) 5	,
Grifols, Inc., Term Loan B, 4.50%, 6/01/17       6.55       645,743         Building Products 1.3%       Term Loan B, 4.00%, 3/09/18       468,399         Armstrong World Industries, Inc., Term Loan B, 4.00%, 3/09/18       474       468,399         CPG International, Inc., Term Loan B, 6.00%, 2/18/17       593       570,281         Goodman Global, Inc.:       Initial Term Loan (First Lien), 5.75%, 10/28/16       1,622,850         Term Loan (Second Lien), 9.00%, 10/30/17       382       385,064         Term Loan (Second Lien), 9.00%, 10/30/17       382       385,064         HarbourVest Partners, Term Loan (First Lien), 6.25%, 12/16/16       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315	Biotechnology 0.3%			2,2,2 .2
Building Products 1.3%         Armstrong World Industries, Inc.,       474       468,399         CPG International, Inc., Term Loan       593       570,281         B, 6.00%, 2/18/17       593       570,281         Goodman Global, Inc.:       1       1         Initial Term Loan (First Lien),       3       382       385,064         5.75%, 10/28/16       1,629       1,622,850       1         Term Loan (Second Lien),       382       385,064       385,064         4       4       4       4       4       4       4       4       4       4       4       4       4       8       9       7       2       3       5       70,281       3       5       70,281       3       8       3       8       3       8       6       4       4       4       4       8       9       8       4       4       4       4       4       8       9       8       3       8       8       8       8       8       8       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9				
Armstrong World Industries, Inc.,       474       468,399         CPG International, Inc., Term Loan       593       570,281         B, 6.00%, 2/18/17       593       570,281         Goodman Global, Inc.:       Initial Term Loan (First Lien),       5,75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       9.00%, 10/30/17       382       385,064         Capital Markets 1.1%       HarbourVest Partners, Term Loan         (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan,       295       294,262         Term Loan, 5.97%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315	6/01/17	6.	55	645,743
Term Loan B, 4.00%, 3/09/18       474       468,399         CPG International, Inc., Term Loan       593       570,281         B, 6.00%, 2/18/17       593       570,281         Goodman Global, Inc.:       Initial Term Loan (First Lien),         5.75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       382       385,064         9.00%, 10/30/17       382       385,064         43,046,594       3,046,594         Capital Markets 1.1%       HarbourVest Partners, Term Loan         (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan,       7,25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315	Building Products 1.3%			
CPG International, Inc., Term Loan       593       570,281         B, 6.00%, 2/18/17       593       570,281         Goodman Global, Inc.:       Initial Term Loan (First Lien),         5.75%, 10/28/16       1,629       1,622,850         Term Loan (Second Lien),       9.00%, 10/30/17       382       385,064         Capital Markets 1.1%         HarbourVest Partners, Term Loan       (First Lien), 6.25%, 12/16/16       7.99       7.99,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan,       7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       999,315				
B, 6.00%, 2/18/17 Goodman Global, Inc.: Initial Term Loan (First Lien), 5.75%, 10/28/16 Term Loan (Second Lien), 9.00%, 10/30/17 382 385,064 Capital Markets 1.1% HarbourVest Partners, Term Loan (First Lien), 6.25%, 12/16/16 Nuveen Investments, Inc.: (First Lien), 7erm Loan, 5.97%, 5/13/17 371 364,138 Incremental Term Loan, 7.25%, 5/13/17 295 294,262 Term Loan, 5.97%, 5/12/17 1,004 990,315		4	74	468,399
Goodman Global, Inc.: Initial Term Loan (First Lien), 5.75%, 10/28/16 Term Loan (Second Lien), 9.00%, 10/30/17 382 385,064 3,046,594  Capital Markets 1.1% HarbourVest Partners, Term Loan (First Lien), 6.25%, 12/16/16 799 799,363 Nuveen Investments, Inc.: (First Lien), Term Loan, 5.97%, 5/13/17 371 364,138 Incremental Term Loan, 7.25%, 5/13/17 295 294,262 Term Loan, 5.97%, 5/12/17			0.2	550.001
Initial Term Loan (First Lien),       1,629       1,622,850         5.75%, 10/28/16       1,622,850         Term Loan (Second Lien),       382       385,064         9.00%, 10/30/17       382       385,064         Capital Markets 1.1%       1       3,046,594         HarbourVest Partners, Term Loan       (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%,       371       364,138         Incremental Term Loan,       371       364,138         Incremental Term Loan,       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315		5'	93	570,281
5.75%, 10/28/161,6291,622,850Term Loan (Second Lien),382385,0649.00%, 10/30/17382385,064Capital Markets 1.1%HarbourVest Partners, Term Loan(First Lien), 6.25%, 12/16/16799799,363Nuveen Investments, Inc.:799799,363(First Lien), Term Loan, 5.97%,371364,138Incremental Term Loan,371364,138Incremental Term Loan,295294,262Term Loan, 5.97%, 5/12/171,004990,315				
Term Loan (Second Lien), 9.00%, 10/30/17  382 385,064 3,046,594  Capital Markets 1.1%  HarbourVest Partners, Term Loan (First Lien), 6.25%, 12/16/16 799 799,363  Nuveen Investments, Inc.: (First Lien), Term Loan, 5.97%, 5/13/17 371 364,138  Incremental Term Loan, 7.25%, 5/13/17 295 294,262  Term Loan, 5.97%, 5/12/17 1,004 990,315		1.6	20	1 622 850
9.00%, 10/30/17  Capital Markets 1.1%  HarbourVest Partners, Term Loan (First Lien), 6.25%, 12/16/16  Nuveen Investments, Inc.: (First Lien), Term Loan, 5.97%, 5/13/17  371  364,138  Incremental Term Loan, 7.25%, 5/13/17  295  294,262  Term Loan, 5.97%, 5/12/17  1,004  382  385,064 3,046,594  799 370 371 364,138		1,0	<i>29</i>	1,022,630
3,046,594         Capital Markets 1.1%         HarbourVest Partners, Term Loan         (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:         (First Lien), Term Loan, 5.97%, 5         5/13/17       371       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315		3	82	385,064
Capital Markets 1.1%         HarbourVest Partners, Term Loan       799       799,363         (First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       799       799,363         (First Lien), Term Loan, 5.97%, 5/13/17       371       364,138         Incremental Term Loan, 7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315				
(First Lien), 6.25%, 12/16/16       799       799,363         Nuveen Investments, Inc.:       (First Lien), Term Loan, 5.97%,         5/13/17       371       364,138         Incremental Term Loan,       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315	Capital Markets 1.1%			
Nuveen Investments, Inc.: (First Lien), Term Loan, 5.97%, 5/13/17  Incremental Term Loan, 7.25%, 5/13/17  295 294,262 Term Loan, 5.97%, 5/12/17  1,004 990,315	HarbourVest Partners, Term Loan			
(First Lien), Term Loan, 5.97%, 5/13/17 364,138 Incremental Term Loan, 7.25%, 5/13/17 295 294,262 Term Loan, 5.97%, 5/12/17 1,004 990,315		7:	99	799,363
5/13/17       371       364,138         Incremental Term Loan,       7.25%, 5/13/17       295       294,262         Term Loan, 5.97%, 5/12/17       1,004       990,315				
Incremental Term Loan,       295       294,262         7.25%, 5/13/17       295       290,315         Term Loan, 5.97%, 5/12/17       1,004       990,315				
7.25%, 5/13/17 294,262 Term Loan, 5.97%, 5/12/17 1,004 990,315		3	71	364,138
Term Loan, 5.97%, 5/12/17 1,004 990,315		2	05	204.262
	101111 LOGII, J.71 /0, J/12/11	1,0	U <del>-1</del>	2,448,078

1.183

1.121.437

Chemicals 4.3%		
American Rock Salt Holdi	ings LLC,	
Term Loan, 5.50%, 4/25/1	7	

Par Floating Rate Loan Interests (b) (000)Value Chemicals (concluded) Chemtura Corp., Exit Term Loan B, 5.50%, 8/27/16 **USD** 800 \$ 799,336 Gentek, Inc., Term Loan B, 5.00% -5.75%, 10/06/15 689,176 689 Ineos US Finance LLC, 6 year Term Loan, 6.50%, 5/04/18 3,200 3,134,272 Nexeo Solutions LLC, Term Loan B, 5.00% - 5.75%, 9/08/17 843,511 866 PolyOne Corp., Term Loan, 5.00%, 12/20/17 349 348,144 PQ Corp., 3.99%, 7/30/14 1,735 1,663,711 Styron Sarl LLC, Term Loan B, 316,476 6.00% - 6.75%, 8/02/17 355 Tronox Worldwide LLC, Term Loan 382,122 B, 4.25%, 2/08/18 389 Univar, Inc., Term Loan B, 5.00%, 6/30/17 669 649,858 9,948,043 **Commercial Services & Supplies** 2.9% ACCO Brands Corp., Term Loan B, 710,536 4.25%, 4/30/19 711 Altegrity, Inc., Tranche D Term Loan, 7.75%, 2/20/15 1,273 1,262,508 AWAS Finance Luxembourg Sarl, Term Loan B, 5.25%, 6/10/16 575 572,306 Delos Aircraft, Inc., Term Loan B2, 4.75%, 4/12/16 1.075 1,073,656 KAR Auction Services, Inc., Term 1,237,523 Loan B, 5.00%, 5/19/17 1,241 Protection One Alarm Monitoring, Inc., Term Loan, 5.75%, 3/16/19 510 505,961 Synagro Technologies, Inc., Term Loan B, 2.24%, 4/02/14 490 427,947 Volume Services America, Inc., Term Loan B, 10.50%, 9/16/16 985 979,258 6,769,695 Communications Equipment 1.4% Avaya, Inc.: Term Loan B1, 3.22%, 10/24/14 954 898,442 Term Loan B3, 4.97%, 10/26/17 175 153,813 CommScope, Inc., Term Loan B, 4.25%, 1/12/18 827 821,383 Telesat LLC, Term Loan B, 4.25%, 3/26/19 1,385 1,366,455 3,240,093 Construction & Engineering 0.9% BakerCorp. International, Inc., Term Loan B, 4.75%, 6/01/18 680 672,339

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

Sativay Services LLC, First Out	Flore Dat I and A	Par	<b>X</b> 7. <b>1</b> .
Sarbway Services LLC, First Out	Floating Rate Loan Interests (b)  Construction & Engineering (concluded)	(000)	Value
Tranche Loan, 9,00%, 12/16/17   USD   1,500   \$ 1,500,000			
Construction Materials   0.9%	· · · · · · · · · · · · · · · · · · ·	USD 1.500	\$ 1,500,000
Disapply, Inc., Senior Debt B   7.25%, 1012/17   2,115   2,123,460   2,55%, 1012/17   2,115   2,123,460   2,55%, 1012/17   2,116   2,123,460   2,55%, 1012/17   1,610   1,484,548   2,55%, 5,50%, 5/10/17   1,610   1,484,548   2,55%, 5/10/17   1,610   1,484,548   2,55%, 5/10/17   1,610   1,484,548   2,55%, 5/10/17   2,610   2,008,591   2,008,591   2,009	11anche Loan, 9.00 %, 12/10/17	03D 1,500	
HD Supply, Inc., Senior Debt B, 2,123,400   2,104,000   2,105   2,123,400   2,234,600   2,234,600   2,234,600   2,234,600   2,234,600   2,344,500	Construction Materials 0.9%		2,172,339
7.25%, 10/12/17   2,115   2,123,460   2,			
Consumer Finance Corp, Term         1,610         1,848,549           Springlace Finance Corp, Term Loan, 5,50%, 5/10/17         1,610         1,848,549           Containers & Packaging 0.4%         0.4%         3         9,99,494           4,75%, 1,003/18         9         909,494           Diversified Consumer Services 2.7%         2         1,000         2,008,591           Connach Service Corp, Term         2,160         2,008,591           Education Management LLC, Term         3         1,002,208           Loan C3, 8,25%, 3/29/18         2,142         2,052,308           Eurreate Education, Inc., Extended         2,142         2,052,308           Term Loan, 5,25%, 8/15/18         2,142         2,052,308           ServiceMaster Co.:         8         8,4147           Delayed Draw Term Loan, 2,79%, 7/24/14         868         8,45,107           Weight Watchers International, 2,79%, 7/24/14         868         8,45,107           Weight Watchers International, 50%, 2/12/19         630         618,345           Powersified Financial Services 1.2         1         1         1,173,345           Reynolds Group Holdings, Inc.:         1         2         2         2         2         2         2         2         2         2		2 115	2 123 460
Springleaf Finance Corp., Ferm Loan B.   1,484,598   1,003/18		2,110	2,125,100
Loan, 5.50%, 5/10/17         1,610         1,484,594           Containers & Packaging 0.4%         909         909,494           4.75%, 10/03/18         909         909,494           briversified Consumer Services 2.7%         2.78         2.160         2,008,591           Education Management LLC, Term         2,160         2,008,591         262           Loan C3, 8.25%, 3/29/18         575         562,925           Laureate Education, Inc., Extended         3,25%, 8/15/18         2,142         2,052,308           Ferm Loan, 5.25%, 8/15/18         2,142         2,052,308         2,052,308           ServiceMaster Co.:         3         4,147         2,166         8,4147         8,68         8,4147         8,68         8,45,019         8,61         8,4147         1,161         8,17,335 <td></td> <td></td> <td></td>			
Container's R'Packaging   0.4%   Sealed Air Corp., Term Loan B, 4.75%, 1003/18   909   909,494		1,610	1,484,549
Sealed Air Corp, Term Loan B, 4,75%, 10/03/18         909         909,494           4,75%, 10/03/18         909         909,494           Diversified Consumer Services Corp, Term         2,160         2,008,591           Education Management LLC, Term         575         562,925           Loan C3, 28,5%, 3/29/18         575         562,925           Education Management LLC, Term         2,142         2,052,308           Erm Loan, 5,25%, 8/15/18         2,142         2,052,308           ServiceMaster Co:         2         1,000         2,142         2,052,308           Delayed Draw Term Loan         86         84,147         1,000         2,018         2,018         2,018         2,019         2,018         2,019         2,018         2,019         2,01		,	, ,
4.75%, 1003/18       909       909,494         Diversified Consumer Services 2.7%       2.160       2,008,591         Loan, 3.24%, 11/20/14       2,160       2,008,591         Education Management LLC, Term       575       562,925         Laureate Education, Inc., Extended       2,142       2,052,308         Term Loan, 5.25%, 8/15/18       2,142       2,052,308         ServiceMaster Co:       2       2         Delayed Draw Term Loan,       868       84,147         Term Loan, 2.79%, 7/24/14       86       84,147         Term Loan, 2.79%, 7/24/14       86       845,019         Weight Watchers International, Inc., Term Loan F, 4.00%, 31/21/9       6,171,335         Diversified Financial Services 1.2%       1.8       8         Reynolds Group Holdings, Inc.:       8       8       8,141         Tranche B Term Loan, 6.50%, 8       2,198       2,203,940       2,0918       2,203,940       2,0918       2,203,940       2,057       2,057       2,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057       1,057			
Diversified Consumer Services 2.7%           Coinmach Service Corp., Term         2,160         2,008.591           Education Management LLC, Term         575         562.925           Laureate Education, Inc., Extended         2,142         2,052.308           Term Loan, 5,25%, 8/15/18         2,142         2,052.308           ServiceMaster Co:         86         84,147           Term Loan, 2,79%, 7/24/14         86         84,147           Term Loan, 2,79%, 7/24/14         86         84,109           Weight Watchers International, Inc., Term Loan F, 4,00%,         618,345         6,171,335           3/12/19         630         618,345         6,171,335           Diversified Financial Services 1.2%           Reynolds Group Holdings, Inc.:           Tranche B Term Loan, 6,50%,         450,677           209/18         450         450,677           Tranche C Term Loan, 6,50%,         2,198         2,203,940           Tranche C Term Loan, 6,50%,         2,198         2,203,940           1,228/17         87         858,037           Tranche Telecommunications Services         3.0%         2,203,040           1,228/17         87         858,037 </td <td>·</td> <td>909</td> <td>909,494</td>	·	909	909,494
Loan, 3,24%, 11/20/14         2,160         2,008,591           Education Management LLC, Term         575         562,925           Laureate Education, Inc., Extended         2,142         2,052,308           Term Loan, 5,25%, 8/15/18         2,142         2,052,308           ServiceMaster Co.:         86         84,147           Delayed Draw Term Loan, 2,79%, 7/24/14         86         845,019           Weight Watchers International, Inc., Term Loan F, 4,00%, 3/12/19         630         618,345           J1/21/9         630         618,345           Poversified Financial Services 1.2%         450         450,677           Reynolds Group Holdings, Inc.:         450         450,677           Tranche C Term Loan, 6,50%, 8/20/918         450         450,677           Tranche C Term Loan, 6,50%, 8/20/918         2,198         2,203,940           Diversified Telecommunication Services 3.0%         2,198         2,203,940           Hawaiian Telcom Communications, Francher         87         858,037           Integra Telecom Holdings, Inc.;         87         858,037           Integra Telecom Holdings, Inc.;         87         858,037           Iterm Loan B 2, 5.75%, 9/15/15         90         880,221           Level 3 Financing, Inc.;         77	Diversified Consumer Services 2.7%		
Education Management LLC, Term   Cann CS, 8.25%, 3/29/18   Soc. 505, 205, 205, 205, 205, 205, 205, 205,	Coinmach Service Corp., Term		
Loan C3, 8.25%, 3/29/18   575   562,925     Laureate Education, Inc., Extended   1,000   1,000     Loan C3, 2.55%, 8/15/18   2,142   2,052,308     ServiceMaster Co.:	Loan, 3.24%, 11/20/14	2,160	2,008,591
Laureate Education, Inc., Extended         2,142         2,052,308           Ferm Loan, 5.25%, 8/15/18         2,052,308           ServiceMaster Co.:         ServiceMaster Co.:           Delayed Draw Term Loan         86         84,147           2,74%, 7/24/14         86         845,019           Weight Watchers International, Inc., Term Loan F, 4.00%,         630         618,345           3/12/19         630         618,345           5/12/19         80         60,71,335           Diversified Financial Services 1.2%           Reynolds Group Holdings, Inc.:           Tranche B Term Loan, 6.50%,           2/09/18         450         450,677           Tranche C Term Loan, 6.50%,         2,198         2,203,494           Diversified Telecommunication Services         3.0%         2,503,406           Diversified Telecommunication Services         3.0%         858,037           Term Loan B, 7.00%,         87         858,037           Diversified Telecommunication Services         3.0%         858,037           Inc., Term Loan B, 7.00%,         87         858,037           Inc., Term Loan B, 9, 25%, 415/15         90         880,221 <t< td=""><td></td><td></td><td></td></t<>			
Term Loan, 5.25%, 8/15/18         2,142         2,052,308           ServiceMaster Co.:         ************************************		575	562,925
ServiceMaster Co.:   Delayed Draw Term Loan, 2.74%, 7/24/14			
Delayed Draw Term Loan,         86         84,147           2,74%, 7/24/14         868         84,019           Term Loan, 2,79%, 7/24/14         868         845,019           Weight Watchers International, Inc., Term Loan F, 4,00%,         630         618,345           3/12/19         630         618,345           biversified Financial Services 1.2%           Reynolds Group Holdings, Inc.:           Tranche B Term Loan, 6.50%,           2/09/18         450         450,677           Tranche C Term Loan, 6.50%,         2,198         2,203,940           8/09/18         2,198         2,203,940           10/09/18         2,198         2,203,940           10/09/18         2,198         2,203,940           10/09/18         2,198         2,03,940           10/09/18         2,198         2,03,940           10/09/18         8         858,037           Inc., Term Loan B, 7.00%,         8         858,037           1/16/2/18         8         858,037           1/16/2/19         8         858,037           1/16/2/19         8         858,037           1/16/2/19         8         858,037           1/16/2/19		2,142	2,052,308
2.74%, 7/24/14       86       84,147         Term Loan, 2.79%, 7/24/14       868       845,019         Weight Watchers International, Inc., Term Loan F, 4.00%,       3/12/19       630       618,345         J12/19       630       618,345       6,717,335         Diversified Financial Services 1.2%         Reynolds Group Holdings, Inc.:         Tranche B Term Loan, 6.50%,       450       450,677         Tranche C Term Loan, 6.50%,       2,198       2,203,940         8/09/18       2,198       2,203,940         Diversified Telecommunication Services 3.0%       3.0         Hawaiian Telcom Communications,       870       858,037         Inc., Term Loan B, 7.00%,       2,281/17       870       858,037         Integra Telecom Holdings, Inc.,       909       880,221         Level 3 Financing, Inc.,       909       880,221         Level 3 Financing, Inc.,       2,050       2,030,607         Term Loan B2, 5.75%,       30/13/14       775       767,669         Tranche A Term Loan, 2.49% -       2,223/17       1,100       1,070,212         US Telepacific Corp., Term Loan B,       5,55%, 2/23/17       1,368       1,288,020			
Term Loan, 2.79%, 7/24/14       868       845,019         Weight Watchers International, Inc., Term Loan F, 4.00%, 3/12/19       630       618,345         3/12/19       630       618,345         5/17,335       5         Diversified Financial Services 1.2%         Reynolds Group Holdings, Inc.:         Tranche B Term Loan, 6.50%, 2/09/18       450       450,677         Tranche C Term Loan, 6.50%, 8/09/18       2,198       2,203,940         Diversified Telecommunication Services 3.0%         Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%, 2/28/17       870       858,037         Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15       909       880,221         Level 3 Financing, Inc.; Term Loan B, 9.25%, 4/15/15       909       880,221         Term Loan B2, 5.75%, 9/03/18       2,050       2,030,607         Term Loan B3, 5.75%, 8/31/18       775       767,669         Tranche A Term Loan, 2.49% - 2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B, 5.75%, 2/23/17       1,368       1,288,020		0.6	04.145
Weight Watchers International, Inc., Term Loan F, 4.00%.         Ji/2/19       630       618,345       6,171,335         Diversified Financial Services 1.2%         Reynolds Group Holdings, Inc.:         Tranche B Term Loan, 6.50%,       450       450,677         Z/09/18       450       450,677         Tranche C Term Loan, 6.50%,       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/09/18       2,198       2,203,940         2/28/17       87       858,037         Integral Telecom Communication Services       8       8         Integral Telecom Holdings, Inc.,       909       880,221         Integral Telecom Holdings, Inc.,       2,050       2,030,607 </td <td>•</td> <td></td> <td>,</td>	•		,
Inc., Term Loan F, 4.00%, 3/12/19 630 618,345 6,171,335     Diversified Financial Services 1.2%     Reynolds Group Holdings, Inc.:		868	845,019
3/12/19	· ·		
Diversified Financial Services   1.2%		630	619 345
Diversified Financial Services   1.2%   Reynolds Group Holdings, Inc.:   Tranche B Term Loan, 6.50%, 2/09/18   450   450,677     Tranche C Term Loan, 6.50%, 8/09/18   2,198   2,203,940     2,654,617     Diversified Telecommunication Services   3.0%     Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%, 2/28/17   870   858,037     Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15   909   880,221     Level 3 Financing, Inc.: Term Loan B2, 5.75%, 9/03/18   2,050   2,030,607     Term Loan B3, 5.75%, 8/31/18   775   767,669     Tranche A Term Loan, 2.49% - 2,72%, 3/13/14   1,100   1,070,212     US Telepacific Corp., Term Loan B, 5,75%, 2/23/17   1,368   1,288,020	5/12/17	030	,
Reynolds Group Holdings, Inc.: Tranche B Term Loan, 6.50%, 2/09/18 450 450,677 Tranche C Term Loan, 6.50%, 8/09/18 2,198 2,203,940 2,654,617  Diversified Telecommunication Services 3.0%  Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%, 2/28/17 870 8858,037 Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15 909 880,221 Level 3 Financing, Inc.: Term Loan B2, 5.75%, 9/03/18 2,050 2,030,607 Term Loan B3, 5.75%, 8/31/18 775 767,669 Tranche A Term Loan, 2.49% - 2,72%, 3/13/14 1,100 1,070,212 US Telepacific Corp., Term Loan B, 5.75%, 2/23/17 1,368 1,288,020	Diversified Financial Services 1.2%		0,171,333
Tranche B Term Loan, 6.50%,       450       450,677         Tranche C Term Loan, 6.50%,       2,198       2,203,940         8/09/18       2,198       2,203,940         Diversified Telecommunication Services 3.0%         Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%,         2/28/17       870       858,037         Integra Telecom Holdings, Inc.,       870       880,221         Level 3 Financing, Inc.:       909       880,221         Level 3 Financing, Inc.:       2,050       2,030,607         Term Loan B2, 5.75%,       9/03/18       2,050       2,030,607         Term Loan B3, 5.75%,       767,669         Tranche A Term Loan, 2.49% -       2,72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       5,75%, 2/23/17       1,368       1,288,020			
2/09/18       450       450,677         Tranche C Term Loan, 6.50%,       2,198       2,203,940         8/09/18       2,198       2,203,940         Diversified Telecommunication Services       3.0%         Hawaiian Telcom Communications,         Inc., Term Loan B, 7.00%,       870       858,037         Integra Telecom Holdings, Inc.,       870       880,221         Level 3 Financing, Inc.:       909       880,221         Level 3 Financing, Inc.:       2,050       2,030,607         Term Loan B2, 5.75%,       2,050       2,030,607         Term Loan B3, 5.75%,       767,669         Tranche A Term Loan, 2.49% -       775       767,669         Tranche A Term Loan, 2.49% -       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,288,020	· · · · · · · · · · · · · · · · · · ·		
Tranche C Term Loan, 6.50%,       2,198       2,203,940         8/09/18       2,198       2,203,940         Diversified Telecommunications Services 3.0%         Hawaiian Telcom Communications,         Inc., Term Loan B, 7.00%,       870       858,037         2/28/17       870       858,037         Integra Telecom Holdings, Inc.,       909       880,221         Level 3 Financing, Inc.:       909       880,221         Level 3 Financing, Inc.:       2,050       2,030,607         Term Loan B2, 5.75%,       2,050       2,030,607         Term Loan B3, 5.75%,       775       767,669         8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,288,020         5.75%, 2/23/17       1,368       1,288,020		450	450,677
8/09/18       2,198       2,203,940         Diversified Telecommunication Services 3.0%         Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%, 2/28/17       870       858,037         Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15       909       885,037         Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15       909       880,221         Level 3 Financing, Inc.:         Term Loan B2, 5.75%, 9/03/18       2,050       2,030,607         Term Loan B3, 5.75%, 8/31/18       775       767,669         Tranche A Term Loan, 2.49% - 2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B, 5.75%, 2/23/17       1,368       1,288,020			,
Diversified Telecommunication Services 3.0%         Hawaiian Telcom Communications,       Inc., Term Loan B, 7.00%,         2/28/17       870       858,037         Integra Telecom Holdings, Inc.,       Term Loan B, 9.25%, 4/15/15       909       880,221         Level 3 Financing, Inc.:       Term Loan B2, 5.75%,         9/03/18       2,050       2,030,607         Term Loan B3, 5.75%,       8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       5.75%, 2/23/17       1,368       1,288,020		2,198	2,203,940
Hawaiian Telcom Communications, Inc., Term Loan B, 7.00%, 2/28/17 870 858,037 Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15 909 880,221 Level 3 Financing, Inc.: Term Loan B2, 5.75%, 9/03/18 2,050 2,030,607 Term Loan B3, 5.75%, 8/31/18 775 767,669 Tranche A Term Loan, 2.49% - 2.72%, 3/13/14 1,100 1,070,212 US Telepacific Corp., Term Loan B, 5.75%, 2/23/17 1,368 1,288,020			2,654,617
Inc., Term Loan B, 7.00%,       870       858,037         2/28/17       870       858,037         Integra Telecom Holdings, Inc.,			
2/28/17870858,037Integra Telecom Holdings, Inc.,			
Integra Telecom Holdings, Inc., Term Loan B, 9.25%, 4/15/15  Level 3 Financing, Inc.: Term Loan B2, 5.75%, 9/03/18  2,050 2,030,607 Term Loan B3, 5.75%, 8/31/18  775 767,669 Tranche A Term Loan, 2.49% - 2.72%, 3/13/14  1,100 1,070,212 US Telepacific Corp., Term Loan B, 5.75%, 2/23/17  1,368 1,288,020			
Term Loan B, 9.25%, 4/15/15       909       880,221         Level 3 Financing, Inc.:       Term Loan B2, 5.75%,         9/03/18       2,050       2,030,607         Term Loan B3, 5.75%,       8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       5.75%, 2/23/17       1,368       1,288,020		870	858,037
Level 3 Financing, Inc.:         Term Loan B2, 5.75%,         9/03/18       2,050       2,030,607         Term Loan B3, 5.75%,         8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,368       1,288,020		000	000 221
Term Loan B2, 5.75%,       2,050       2,030,607         9/03/18       2,050       2,030,607         Term Loan B3, 5.75%,       767,669         8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,368       1,288,020		909	880,221
9/03/182,0502,030,607Term Loan B3, 5.75%,767,6698/31/18775767,669Tranche A Term Loan, 2.49% -1,1001,070,2122.72%, 3/13/141,1001,070,212US Telepacific Corp., Term Loan B,1,3681,288,020	•		
Term Loan B3, 5.75%,       767,669         8/31/18       775       767,669         Tranche A Term Loan, 2.49% -       1,100       1,070,212         2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,368       1,288,020		2.050	2 020 607
8/31/18 775 767,669  Tranche A Term Loan, 2.49% - 2.72%, 3/13/14 1,100 1,070,212  US Telepacific Corp., Term Loan B, 5.75%, 2/23/17 1,368 1,288,020		2,030	2,030,007
Tranche A Term Loan, 2.49% -       1,100       1,070,212         2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,368       1,288,020		775	767 660
2.72%, 3/13/14       1,100       1,070,212         US Telepacific Corp., Term Loan B,       1,368       1,288,020		113	707,009
US Telepacific Corp., Term Loan B, 5.75%, 2/23/17 1,368 1,288,020		1 100	1 070 212
5.75%, 2/23/17 1,368 1,288,020		1,100	1,070,212
		1.368	1,288,020
		,	

Floating Rate Loan Interests (b) Electronic Equipment, Instruments & Components	0.5%	Par (000)	Value
CDW LLC, Extended Term Loan,	0.3 %		
4.00%, 7/14/17	USI	D 431	\$ 411,869
Sensata Technologies Finance Co.			
LLC, Term Loan, 4.00%,			
5/11/18		775	762,260
Energy Equipment & Services 2.2%			1,174,129
Dynegy Midwest Generation LLC,			
Coal Co. Term Loan, 9.25%,			
8/04/16		861	878,031
Dynegy Power LLC, Gas Co. Term			
Loan, 9.25%, 8/04/16		1,576	1,624,366
MEG Energy Corp., Term Loan B,		1.550	1 522 (2)
4.00%, 3/16/18 Tervita Corp., Term Loan B, 3.24%,		1,552	1,533,636
11/14/14		1,203	1,153,659
		1,203	5,189,692
Food & Staples Retailing 0.3%			2, 21,22
US Foods, Inc. (FKA US			
Foodservice, Inc.), Term Loan B,			
2.74%, 7/03/14		643	621,048
Food Products 2.0%			
Advance Pierre Foods, Term Loan (First Lien), 7.00%, 9/30/16		2,278	2,279,913
Del Monte Corp., Term Loan,		2,210	2,217,713
4.50%, 3/08/18		1,042	1,015,100
Pinnacle Foods Finance LLC:			
Term Loan E, 4.75%,			
10/17/18		733	726,515
Tranche B Term Loan, 3.97%, 10/03/16		119	117 920
Solvest Ltd. (Dole):		119	117,830
Tranche B-2 Term Loan,			
5.00% - 6.00%, 7/06/18		203	202,367
Tranche C-2 Term Loan,			
5.00% - 6.00%, 7/06/18		364	362,131
W 10 G F 1 40 G 11 40 G			4,703,856
Health Care Equipment & Supplies 1.9%			
Bausch & Lomb, Inc., Term Loan B, 5.25%, 5/17/19		1,135	1,114,525
DJO Finance LLC:		1,133	1,111,525
Term Loan B2, 5.24%,			
11/01/16		356	352,820
Term Loan B3, 6.25%,			
9/15/17		1,235	1,220,081
Hupah Finance Inc., Term Loan B,		675	<i>477</i> 112
6.25%, 1/21/19 Immucor, Inc., Term Loan B,		675	677,113
7.25%, 8/17/18		975	973,276
,			4,337,815

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

Pleating Rate Loan Interests (b)   Pleating Care Providers & Services   2.9%
ConvaTec, Inc., Term Loan, 5.75%,       USD       1,068       \$ 1,059,454         DaVita, Inc., Term Loan B, 4.50%,       1,086       1,079,222         Emergency Medical Services, Term       863       851,061         Loan, 5.25% - 6.00%, 5/25/18       863       851,061         Harden Healthcare LLC:       863       298,217         Tranche A Additional Term       304       298,217         Loan, 7.75%, 3/02/15       1,070       1,048,524         in Ventiv Health, Inc.:       1,070       1,048,524         in Ventiv Health, Inc.:       140       131,268         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       620       588,293         6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       1,042       1,000,440
12/22/16       USD       1,068       \$ 1,059,454         DaVita, Inc., Term Loan B, 4.50%,       1,020/16       1,086       1,079,222         Emergency Medical Services, Term       2         Loan, 5.25% - 6.00%, 5/25/18       863       851,061         Harden Healthcare LLC:       2         Term Loan A, 8.50%, 3/02/15       304       298,217         Tranche A Additional Term       2         Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       2         Combined Term Loan B,       5         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       6.75%, 5/15/18       6.50% - 7.25%, 6/16/17       1,000,440         Wolverine Healthcare, Term Loan B,       5
10/20/16       1,086       1,079,222         Emergency Medical Services, Term       863       851,061         Loan, 5.25% - 6.00%, 5/25/18       863       851,061         Harden Healthcare LLC:       Term Loan A, 8.50%, 3/02/15       304       298,217         Tranche A Additional Term       Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       Combined Term Loan B,         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       6.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       10,000,440
Loan, 5.25% - 6.00%, 5/25/18       863       851,061         Harden Healthcare LLC:       Term Loan A, 8.50%, 3/02/15       304       298,217         Tranche A Additional Term       Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       Combined Term Loan B,       6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       6.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,
Harden Healthcare LLC: Term Loan A, 8.50%, 3/02/15 Tranche A Additional Term Loan, 7.75%, 3/02/15 Loan, 7.75%, 3/02/15 InVentiv Health, Inc.: Combined Term Loan B, 6.50%, 8/04/16 Incremental Term Loan B-3, 6.75%, 5/15/18 620 588,293 Medpace, Inc., Term Loan, 6.50% - 7.25%, 6/16/17 1,042 Wolverine Healthcare, Term Loan B,
Term Loan A, 8.50%, 3/02/15       304       298,217         Tranche A Additional Term       1,070       1,048,524         Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       Combined Term Loan B,         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       6.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       1,000,440
Tranche A Additional Term       1,070       1,048,524         Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       Combined Term Loan B,         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       6.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,
Loan, 7.75%, 3/02/15       1,070       1,048,524         inVentiv Health, Inc.:       Combined Term Loan B,         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       6.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       Townspan="2">1,000,440
in Ventiv Health, Inc.:  Combined Term Loan B,  6.50%, 8/04/16  Incremental Term Loan B-3,  6.75%, 5/15/18  620  588,293  Medpace, Inc., Term Loan,  6.50% - 7.25%, 6/16/17  1,042  Volverine Healthcare, Term Loan B,
Combined Term Loan B,       140       131,268         6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,       6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       5.50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       1,000,440       1,000,440
6.50%, 8/04/16       140       131,268         Incremental Term Loan B-3,
Incremental Term Loan B-3, 6.75%, 5/15/18 620 588,293 Medpace, Inc., Term Loan, 6.50% - 7.25%, 6/16/17 1,042 Wolverine Healthcare, Term Loan B,
6.75%, 5/15/18       620       588,293         Medpace, Inc., Term Loan,       50% - 7.25%, 6/16/17       1,042       1,000,440         Wolverine Healthcare, Term Loan B,       1,000,440       1,000,440
Medpace, Inc., Term Loan, 6.50% - 7.25%, 6/16/17 1,000,440 Wolverine Healthcare, Term Loan B,
6.50% - 7.25%, 6/16/17 1,000,440 Wolverine Healthcare, Term Loan B,
Wolverine Healthcare, Term Loan B,
6.75%, 5/12/17 560 550,900
,
6,607,379
Health Care Technology 1.0%
IMS Health, Inc., Term Loan B, 4.50%, 8/25/17 1,028 1,019,105
Kinetic Concepts, Inc., Term
Loan B, 7.00%, 5/04/18 698 702,181
MedAssets, Inc., Term Loan,
5.25%, 11/16/16 548, 105
2,266,391
Hotels, Restaurants & Leisure 3.9%
Alpha D2 Ltd.: Tarra Lean P. 5.75% 4/28/17
Term Loan B, 5.75%, 4/28/17 365 364,011 Term Loan B, 6/08/18 225 222,656
Caesars Entertainment Operating
Co., Inc.:
Extended Term Loan B6,
5.49%, 1/26/18
Incremental Term Loan B4,
9.50%, 10/31/16 729 733,481
Term Loan B1, 3.24%,
1/28/15 536 489,292
Term Loan B3, 3.24% - 3.47%,
1/28/15 2,942 2,684,938
Dunkin Brands, Inc., Term Loan B, 4.00%, 11/23/17 1,327,764
4.00%, 11/2517  Golden Living, Term Loan, 5.00%,
5/04/18 131,295
OSI Restaurant Partners LLC:
Revolver, 2.72% 4.50%,
6/14/13 8 7,891
82 79,793

Term Loan B, 2.56% - 4.50%, 6/14/14
Sabre, Inc., Non Extended Initial

Sabre, Inc., Non Extended Initial
Term Loan, 2.24%, 9/30/14
310
294,565

	Par	
Floating Rate Loan Interests (b)	(000)	Value
Hotels, Restaurants & Leisure (concluded)		
SeaWorld Parks & Entertainment,		
Inc., Term Loan B, 4.00%, 8/17/17	USD 900	¢ 996.266
Six Flags Theme Parks, Inc.,	USD 900	\$ 886,266
Tranche B Term Loan (First		
Lien), 4.25%, 12/20/18	420	415,502
Wendy s International, Inc.:	.20	110,002
Delayed Draw Term Loan,		
0.50%, 5/15/19	502	494,900
Term Loan B, 4.75%, 5/15/19	628	620,173
		8,906,555
Household Products 0.3%		
Prestige Brands, Inc., Term Loan,		
5.25% - 6.25%, 1/31/19	733	732,928
Independent Power Producers & Energy Traders 0.4%		
AES Corp., Term Loan, 4.25%,	0.41	020 101
6/01/18 Industrial Conglomerates 1.2%	941	929,101
Schrader International, Term		
Loan B, 6.25%, 4/27/18	80	80,637
Sequa Corp.:	00	00,037
Incremental Term Loan,		
6.25%, 12/03/14	304	303,477
Term Loan, 3.72%, 12/03/14	1,225	1,200,939
Tomkins Plc, Term Loan B, 4.25%,		
9/29/16	1,121	1,114,840
		2,699,893
Insurance 0.2%		
Asurion LLC, Term Loan (First		## / <b>*</b> 0 *
Lien), 5.50%, 5/24/18	564	554,696
Internet Software & Services 0.3%		
Web.com Group, Inc., Term Loan B, 7.00%, 10/27/17	613	606,124
IT Services 4.0%	013	000,124
Ceridian Corp., Term Loan, 3.24%,		
11/10/14	1,220	1,153,261
First Data Corp.:	1,220	1,100,201
Extended Term Loan B, 4.24%,		
3/23/18	4,159	3,756,804
Term Loan B-1, 2.99%,		
9/24/14	333	314,819
Term Loan B-3, 2.99%,		
9/24/14	141	133,511
InfoGroup Inc., Term Loan B, 5.75%, 5/25/18	473	420,958
iPayment, Inc., Term Loan B, 5.75%, 5/08/17	511	509,723
NeuStar, Inc., Term Loan B, 5.00%, 11/08/18	771	773,053
SunGard Data Systems, Inc. (Solar	//1	113,033
Capital Corp.), Tranche B Term		
Loan, 3.86% - 4.09%, 2/26/16	287	283,706
		•

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

## BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

Floating Rate Loan Interests (b)	Par (000)	Value
IT Services (concluded)		
TransUnion LLC, Term Loan B,	1100 1 045	Φ 1.052.060
5.50%, 2/12/18	USD 1,945	\$ 1,953,060 9,298,895
Leisure Equipment & Products 0.4%		9,290,093
Eastman Kodak Co., DIP Term		
Loan B, 8.50%, 7/19/13	726	726,023
Freedom Group, Inc., Term Loan, 5.50%, 4/12/19	300	298,875
5.50 /0, 4/12/17	300	1,024,898
Machinery 1.3%		1,021,090
Harbor Freight Tools USA, Inc.,		
Term Loan B, 5.50%, 11/10/17	450	445,725
Rexnord Corp., Term Loan B,		,
5.00%, 4/02/18	349	347,030
Terex Corp., Term Loan B, 5.50%,		
4/28/17	1,130	1,129,335
Wabash National Corp., Term		
Loan B, 6.00%, 5/02/19	1,025	1,014,750
N. P. 44.00		2,936,840
Media 11.0%		
Acosta, Inc., Term Loan, 4.75%, 3/01/18	305	301,340
Affinion Group, Inc., Tranche B		,
Term Loan, 5.00%, 7/16/15	265	244,975
AMC Networks, Inc., Term Loan B,		
4.00%, 12/31/18	717	710,034
Capsugel Healthcare Ltd., Term		
Loan, 5.25%, 8/01/18	779	778,925
Cengage Learning Acquisitions, Inc.:	752	(00.12(
Term Loan, 2.49%, 7/03/14 Tranche 1 Incremental Term	753	680,126
Loan, 7.50%, 7/03/14	666	637,314
Charter Communications Operating LLC:	000	037,314
Term Loan C, 3.72%, 9/06/16	1,632	1,607,227
Term Loan D, 4.00%, 5/15/19	636	626,457
Cumulus Media, Inc., Term Loan,		
5.75%, 9/17/18	1,152	1,142,520
EMI Music Publishing Ltd., Term		
Loan B, 11/14/17	475	472,031
Gray Television, Inc., Term Loan B,		
3.74%, 12/31/14	869	859,840
HMH Publishing Co. Ltd., Term	1 220	741 (14
Loan, 0.00%, 6/12/14	1,338	741,614
Hubbard Broadcasting, Term Loan  B (Second Lien) 5.25%		
B (Second Lien), 5.25%, 4/28/17	557	552,331
Intelsat Jackson Holdings SA,		332,331
Tranche B Term Loan, 5.25%,		
4/02/18	5,824	5,772,148
	891	875,407

Interactive Data Corp., Term		
Loan B, 4.50%, 2/12/18		
Kabel Deutschland GmbH, Term		
Loan F, 4.25%, 2/01/19	1,200	1,179,756

	Pa		
Floating Rate Loan Interests (b)	(00	0)	Value
Media (concluded)			
Newsday LLC, Fixed Rate Term Loan, 10.50%, 8/01/13	USD	3,250	\$ 3,312,985
Nielsen Finance LLC, Class C Term Loan, 3.49%, 5/02/16		223	219,667
Sinclair Television Group, Inc.,			,,,,,,,
Tranche B Term Loan, 4.00%, 10/28/16		1,217	1,206,309
Univision Communications, Inc., Extended First Lien Term Loan, 4.49%, 3/31/17		1,708	1,565,018
UPC Financing Partnership:			
Term Loan, 4.75%, 12/29/17 Term Loan T, 3.74%,		350	344,575
12/30/16		425	419,109
WC Luxco Sarl, Term Loan B3, 4.25%, 3/15/18		311	308,759
Weather Channel, Term Loan B, 4.25%, 2/13/17		844	838,108
			25,396,575
Metals & Mining 2.2%			
Constellium Holding Co. BV, Term Loan B, 9.25%, 5/22/18		230	224,250
Novelis, Inc.:		230	224,230
Incremental Term Loan B2, 4.00%, 3/10/17		893	873,587
Term Loan B2, 4.00%, 3/10/17		1,629	1,593,398
SunCoke Energy, Inc., Term		844	
Loan B, 4.00%, 7/26/18 Walter Energy, Inc., Term Loan B,			833,081
4.00%, 4/02/18		1,629	1,563,936 5,088,252
Multiline Retail 0.3%			, ,
99 Cents Only Stores, Term Loan B, 5.25%, 1/11/19		793	787,350
Oil, Gas & Consumable Fuels 1.7%			,
Chesapeake Energy Corp., Unsecured Term Loan, 8.50%,			
12/01/17		1,715	1,683,272
EP Energy LLC, Term Loan B, 6.50%, 4/24/18		455	455,287
Gibson Energy, Term Loan B, 4.75%, 6/15/18		794	789,037
Obsidian Natural Gas Trust,			
Term Loan, 7.00%, 11/02/15		1,034	1,034,425 3,962,021
Paper & Forest Products 0.2%			
NewPage Corp., DIP Term Loan, 8.00%, 3/07/13		350	352,772
Pharmaceuticals 2.2% Aptalis Pharma, Inc., Term Loan B,			
5.50%, 2/10/17		938	907,167

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

## BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

	Par		
Floating Rate Loan Interests (b)	(000)		Value
Pharmaceuticals (concluded)			
Pharmaceutical Product			
Development, Inc., Term Loan		_	
Tranche 2, 6.25%, 12/05/18	USD 1,592	\$	1,591,987
Quintiles Transnational Corp., Term	<b>5</b> 00		600.000
Loan, 5.00%, 6/08/18	700		689,000
RPI Finance Trust:			
Incremental Tranche 2 Term	170		160.510
Loan, 4.00%, 11/09/18	170		168,513
Term Loan Tranche 2, 4.00%,	115		111 765
5/09/18	445		441,765
Valeant Pharmaceuticals			
International, Add-On Term Loan	720		712 202
B, 4.75%, 2/13/19 Warner Chilcott Corp.:	730		713,392
·			
Term Loan B-1, 4.25%, 3/15/18	453		449,105
Term Loan B-2, 4.25%,	433		449,103
3/15/18	226		224,552
3/13/10	220		5,185,481
Professional Services 0.8%			5,165,461
Booz Allen Hamilton, Inc., Tranche			
B Term Loan, 3.75%, 8/03/17	345		343,706
Emdeon, Inc., Term Loan B, 6.75%,	545		3-3,700
11/02/18	1,321		1,317,516
ON Assignment, Inc., Term Loan B,	1,521		1,317,310
5.00%, 5/15/19	235		232,356
	200		1,893,578
Real Estate Investment Trusts (REITs) 1.0%			, ,
iStar Financial, Inc.:			
Term Loan A1, 5.00%,			
6/28/13	2,307		2,296,262
Term Loan A2, 7.00%,			
6/30/14	80		79,800
			2,376,062
Real Estate Management & Development 1.4%			
Realogy Corp.:			
Extended Synthetic Letter of			
Credit Loan, 4.49%,			
10/10/16	1,160		1,057,038
Extended Term Loan, 4.49%,			
10/10/16	2,133		1,944,103
Stockbridge SBE Holdings LLC,			
Term Loan BTerm Loan B,			معد سوو
13.00%, 5/02/17	160		157,600
D 10 D 11 0 FG			3,158,741
Road & Rail 0.7%			
Avis Budget Car Rental LLC,			
Incremental Term Loan, 6.25%,	267		265.051
9/21/18	367		365,851
	830		826,198

RailAmerica, Inc., Term Loan B, 4.00%, 3/01/19

	Par			
Floating Rate Loan Interests (b)  Road & Rail (concluded)	(000)			Value
Road Infrastructure Investment				
LLC, Term Loan B, 6.25%, 3/30/18	USD	440	\$	433,400
3/30/16	USD	440	Ф	1,625,449
Semiconductors & Semiconductor Equipment 0.6%				,, -
Freescale Semiconductor, Inc.,				
Extended Term Loan B, 4.49%, 12/01/16		1,002		939,353
NXP B.V., Term Loan A-2, 5.50%,		1,002		757,555
3/03/17		507		499,178
C. D 1 7 0				1,438,531
Software 1.7% Blackboard, Inc., Term Loan B,				
7.50%, 10/04/18		324		308,993
Lawson Software, Inc., Term				
Loan B, 6.25%, 4/05/18		1,920		1,916,237
Sophia, LP, Term Loan B, 6.25%, 7/19/18		650		651,163
SS&C Technologies:		050		051,105
Term Loan B-1, 5.00%,				
5/11/19 Tarry Land D 2 5 000		852		848,680
Term Loan B-2, 5.00%, 5/13/19		88		87,795
5,15,17		00		3,812,868
Specialty Retail 3.6%				
Academy Ltd., Term Loan, 6.00%, 8/03/18		998		997,500
Bass Pro Group LLC, Term Loan,		125		422.551
5.25%, 6/13/17 Burlington Coat Factory		435		433,551
Warehouse Corp., Term Loan B,				
5.50%, 2/28/17		712		704,847
Claire s Stores, Inc., Term Loan B,		5.40		502 505
2.99% - 3.22%, 5/29/14 General Nutrition Centers, Inc.,		542		503,585
Term Loan B, 4.25%, 3/02/18		705		696,568
Jo-Ann Stores, Inc., Term Loan B,				
4.75%, 3/16/18 Michaela Stores Than		388		383,398
Michaels Stores, Inc.: Extended Term Loan B3,				
5.00%, 7/29/16		239		237,921
Term Loan B2, 5.00%,				
7/29/16 Petco Animal Supplies, Inc., Term		959		954,101
Loan B, 4.50%, 11/24/17		1,504		1,483,827
Things Remembered, Inc., New		-,		2,100,02,
Term Loan B, 8.00%, 5/30/18		580		568,400
Toys R Us Delaware, Inc.: Term Loan, 6.00%, 9/01/16		381		372,473
Term Loan B2, 5.25%,		501		312,713
5/25/18		162		154,320
Term Loan B3, 5.25%,		100		100.005
5/25/18		190		180,025

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

	Par		
Floating Rate Loan Interests (b)	(000)		Value
Specialty Retail (concluded)			
The Yankee Candle Co., Inc.,			
New Term Loan B, 5.25%, 4/02/19	USD	555	\$ 550,699
			8,221,215
Textiles, Apparel & Luxury Goods 0.3%			
Ascend Performance Materials			
LLC, Term Loan B, 6.75%,			
4/10/18		755	733,611
Wireless Telecommunication Services 1.8%			
Crown Castle International Corp.,			
Term Loan B, 4.00%, 1/31/19		409	402,840
MetroPCS Wireless, Inc., Term			
Loan B-3, 4.00%, 3/16/18		567	551,057
Vodafone Americas Finance 2, Inc.,			
Term Loan, 6.88%, 8/11/15 (f)		3,046	3,091,386
			4,045,283
Total Floating Rate Loan Interests 76.3%			176,334,679
_			

	Beneficial Interest	
Other Interests (i)	(000)	
Auto Components 0.0%		
Intermet Liquidating Trust,		
Class A (c)	320	
Diversified Financial Services 0.4%		
J.G.Wentworth LLC Preferred		
Equity Interests (c)	(j) 1,033,025	5
Media 0.0%		
Adelphia Preferred Escrow (c)	3	
Adelphia Recovery Trust, Series		
ACC-6B INT (c)	250 1,250	$\mathbf{c}$
· ·	1,250	)
Total Other Interests 0.4%	1,034,275	5
Preferred Securities		

# Preferred Stocks 0.1% Shares Diversified Financial Services Ally Financial, Inc., 7.00% (a) 170 145,764

Preferred Securities	Shares	Value
Trust Preferreds 0.2%		
Diversified Financial Services		
GMAC Capital Trust I, Series 2,		
8.13%, 2/15/40 (b)	22,630	\$ 518,680
Total Preferred Securities 0.3%		664 444

Warrants (k) Media 0.1%		
Charter Communications, Inc.		
(Issued/exercisable 11/30/09,		
1 Share for 1 warrant, Expires		
11/30/14, Strike Price \$51.28) (c)	6,862	116,654
Total Long-Term Investments (Cost \$324,304,076) 135.7%		313,486,405

Short-Term Securities	Benet Inte (00	rest	
Bank of New York Cash Reserves,			
0.01 (l)	USD	517	516,814
Total Short-Term Securities			
(Cost \$516,814) 0.2%			516,814
Total Investments (Cost - \$324,820,890*) 135.9%			314,003,219
Liabilities in Excess of Other Assets (35.9)%			(82,954,659)
Net Assets 100.0%		\$	231,048,560

\* As of May 31, 2012, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

Tax cost	\$ 322,936,910
Gross unrealized appreciation	\$ 6,476,974
Gross unrealized depreciation	(15,410,665)
Net unrealized depreciation	\$ (8.933.691)

- (a) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (b) Variable rate security. Rate shown is as of report date.
- (c) Non-income producing security.
- (d) Issuer filed for bankruptcy and/or is in default of principal and/or interest payments.
- (e) Represents a step-down bond that pays an initial coupon rate for the first period and then a lower coupon rate for the following periods. Rate shown is as of report date.

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

#### Consolidated Schedule of Investments (continued)

BlackRock Senior High Income Fund, Inc. (ARK)

- (f) Represents a payment-in-kind security which may pay interest/dividends in additional par/shares.
- (g) Convertible security.
- (h) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date.
- (i) Other interests represent beneficial interests in liquidation trusts and other reorganization or private entities.
- (j) Amount is less than \$500.
- (k) Warrants entitle the Fund to purchase a predetermined number of shares of common stock and are non-income producing. The purchase price and number of shares are subject to adjustment under certain conditions until the expiration date, if any.
- (l) Represents the current yield as of report date.

#### **Portfolio Abbreviations**

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list:

CAD Canadian Dollar DIP Debtor-In-Possession

EBITDA Earnings Before Interest, Taxes, Depreciation and Amortization

FKA Formerly Known As

USD US Dollar

Foreign currency exchange contracts as of May 31, 2012 were as follows:

Currency					Settlement	Uı	ırealized
Purchased		Curre	ency Sold	Counterparty	Date	Apj	preciation
USD	384,081	CAD	381,500	Citibank	7/18/12	\$	15,094

Credit default swaps on traded indexes - sold protection outstanding as of May 31, 2012 were as follows:

Index	Receive Fixed Rate	Counter- party	Expiration Date	Issuer Credit Rating <sup>1</sup>		onal ount (0) <sup>2</sup>	_	nrealized preciation
Dow Jones CDX North America High Yield Index Series 18	5.00%	Deutsche Bank AG	6/20/17	Not Rated	USD	3,500	\$	(132,566)
Dow Jones CDX North America High Yield	5.00%	JPMorgan Chase & Co.	6/20/17	Not Rated	USD	5,950		(294,455)

Index Series 18

**Total** \$ (427,021)

- Using Standard & Poor s rating of the underlying securities.
- The maximum potential amount the Fund may pay should a negative event take place as defined under the terms of agreement.

For Fund compliance purposes, the Fund s industry classifications refer to any one or more of the industry sub-classifications used by one or more widely recognized market indexes or rating group indexes, and/or as defined by Fund management. These definitions may not apply for purposes of this report, which may combine such industry sub-classifications for reporting ease.

Fair Value Measurements - Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets and liabilities

Level 2 other observable inputs (including, but not limited to: quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Fund s own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Fund s policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. For information about the Fund s policy regarding valuation of investments and derivative financial instruments and other significant accounting policies, please refer to the Fund s most recent financial statements as contained in its annual report.

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

#### BlackRock Senior High Income Fund, Inc. (ARK) (Percentages shown are based on Net Assets)

The following tables summarize the inputs used as of May 31, 2012 in determining the fair valuation of the Fund s investments and derivative financial instruments:

Valuation Inputs	Level 1	Level 2	Level 3	Total
Assets:				
Investments in Securities:				
Long Term Investments:				
Asset-Backed Securities		\$ 341,366	\$ 4,269,255	\$ 4,610,621
Common Stocks \$	664,058	114,550	337,412	1,116,020
Corporate Bonds		125,290,711	4,319,001	129,609,712
Floating Rate Loan Interests		166,117,093	10,217,586	176,334,679
Other Interests	1,250		1,033,025	1,034,275
Preferred Securities	518,680	145,764		664,444
Warrants	116,654			116,654
Short-Term Securities		516,814		516,814
Liabilities:				
Unfunded Loan Commitments		(808)		(808)
Total \$	1,300,642	\$ 292,525,490	\$ 20,176,279	\$ 314,002,411
Valuation Inputs	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments <sup>1</sup>				
Assets:				
Foreign currency exchange contracts		\$ 15,094		\$ 15,094
Liabilities:				
Credit contracts		(427,021)		(427,021)
Total		\$ (411,927)		\$ (411,927)

Derivative financial instruments are foreign currency exchange contracts and swaps, which are valued at the unrealized appreciation/depreciation on the instrument.

Certain of the Fund s assets and liabilities are held at carrying amount, which approximates fair value for financial reporting purposes. As of May 31, 2012, such assets and liabilities are categorized within the disclosure hierarchy as follows:

Valuation Inputs	L	evel 1	Level 2	Level 3	Total
Assets:					
Foreign currency	\$	4,397			\$ 4,397
Liabilities:					
Loan Payable			\$ (76,000,000)		(76,000,000)
Total	\$	4,397	\$ (76,000,000)		\$ (75,995,603)

There were no transfers between Level 1 and Level 2 during the period ended May 31, 2012.

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

#### BlackRock Senior High Income Fund (ARK)

The following table summarizes the valuation techniques used and unobservable inputs developed by the BlackRock Global Valuation Methodologies Committee to determine the fair value of certain of the Fund s Level 3 investments as of May 31, 2012:

Assets:	Value	Valuation Techniques	Unobservable Inputs <sup>1</sup>	Range of Unobservable Inputs	Weighted Average of Unobservable Inputs <sup>2</sup>
			EBITDA		
Common Stocks	\$ 65,534	Market Comparable Companies	Multiple	5.0x	5.0x
			EBITDA		
Corporate Bonds	4,062,381	Market Comparable Companies	Multiple	5.0x	5.0x
Total <sup>3</sup>	\$ 4.127.915				

A change to the unobservable input may result in a significant change to the value of the investment as follows:

Impact to Value if Input Decreases Unobservable Input Impact to Value if Input Increases **EBITDA** Multiple Increase Decrease

				Floating Rate		
	Asset-Backed	Common	Corporate	Loan	Other	T 1
	Securities	Stocks	Bonds	Interests	Interests	Total
Assets:						
Opening balance, as of February 29, 2012	\$ 3,022,303	\$ 355,57	4 \$ 4,310,541	\$ 12,348,294	\$ 989,983	\$ 21,026,695
Transfers into Level 3 <sup>1</sup>						
Transfers out of Level 3 <sup>1</sup>				(2,967,667)		(2,967,667)
Accrued discounts/premiums	11,479		44,729	3,216		59,424
Net realized gain (loss)	(37,006)			(91)		(37,097)
Net change in unrealized						
appreciation/depreciation <sup>2</sup>	87,085	(18,16	(2) (36,269)	39,194	43,035	114,883
Purchases	2,463,289			1,653,525	7	4,116,821
Sales	(1,277,895)			(858,885)		(2,136,780)
Closing balance, as of May 31, 2012	\$ 4,269,255	\$ 337,41	2 \$ 4,319,001	\$ 10,217,586	\$ 1,033,025	\$ 20,176,279

<sup>&</sup>lt;sup>1</sup> Transfers into and transfers out of Level 3 represent the beginning of the reporting period value. As of February 29, 2012, the Fund used significant unobservable inputs in determining the value of certain investments. As of May 31, 2012, the Fund used observable inputs in determining the value on the same investments. As a result, investments with a beginning of period value of \$2,967,667 transferred from Level 3 to Level 2 in the disclosure hierarchy.

A reconciliation of Level 3 investments is presented when the Fund had a significant amount of Level 3 investments at the beginning and/or end of the period in relation to net assets.

<sup>2</sup> Unobservable inputs are weighted based on the value of the investments included in the range.

<sup>3</sup> Does not include Level 3 investments with values derived utilizing prices from prior transactions or third party pricing information without adjustment for which such inputs are unobservable. See above valuation input table for values of such Level 3 investments. A significant change in the unobservable inputs could result in a significantly lower or higher value in such Level 3 investments. The following is a reconciliation of Level 3 investments for which significant unobservable inputs were used in determining fair value:

<sup>&</sup>lt;sup>2</sup> The change in unrealized appreciation/depreciation on investments still held as of May 31, 2012 was \$(1,736).

BLACKROCK SENIOR HIGH INCOME FUND, INC.

MAY 31, 2012

#### Item 2 - Controls and Procedures

- 2(a) The registrant's principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the "1940 Act")) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

#### Item 3 - Exhibits

Certifications - Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

BlackRock Senior High Income Fund, Inc.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Senior High Income Fund, Inc.

Date: July 25, 2012

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ John M. Perlowski
John M. Perlowski
Chief Executive Officer (principal executive officer) of
BlackRock Senior High Income Fund, Inc.

Date: July 25, 2012

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Senior High Income Fund, Inc.

Date: July 25, 2012