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PIONEER HIGH INCOME TRUST
Form N-Q
February 27, 2009

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-Q

CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act file number 811-21043

Pioneer High Income Trust
(Exact name of registrant as specified in charter)

60 State Street, Boston, MA 02109
(Address of principal executive offices) (ZIP code)

Dorothy E. Bourassa, Pioneer Investment Management, Inc.,
60 State Street, Boston, MA 02109
(Name and address of agent for service)

Registrant's telephone number, including area code: (617) 742-7825

Date of fiscal year end: March 31

Date of reporting period: December 31, 2008

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after close of the first and third fiscal quarters, pursuant to Rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget ("OMB") control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. ss. 3507.

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ITEM 1. Schedule of Investments.

Principal Amount USD (\$)		Value
	Pioneer High Income Trust SCHEDULE OF INVESTMENTS 12/31/08 (unaudited)	
	ASSET BACKED SECURITIES - 3.3% of Net Assets	
	Transportation - 0.1%	
	Airlines - 0.1%	
351,975	Continental Airlines, Inc., Series B, 8.499%, 1\$	257,822
	Total Transportation	\$ 257,822
	Banks - 0.8%	
	Thrifths & Mortgage Finance - 0.8%	
700,000	(a) ACE Securities Corp., 0.9213%, 4/25/35	\$ 590,485
531,443	(a) ACE Securities Corp., 1.071%, 12/25/34	336,516
631,974	(a) Countrywide Asset-Backed Certificates, 0.65125%, 7	484,289
246,000	(a) FBR Securitization Trust, 0.82125%, 10/25/35	181,300
	Total Banks	\$ 1,592,590
	Diversified Financials - 0.0%	
	Other Diversified Financial Services - 0.0%	
280,000	(a) Bear Stearns Asset Backed Securities Trust, 0.9\$	82,999
	Total Diversified Financials	\$ 82,999
	Utilities - 2.4%	
	Other Diversified Financial Services - 2.4%	
4,008,173	Ormat Funding Corp., 8.25%, 12/30/20	\$ 2,966,048
2,175,000	(a) Power Contract Financing III LLC, 1.332%, 2/5/10 (1,761,750
	Total Utilities	\$ 4,727,798
	TOTAL ASSET BACKED SECURITIES (Cost \$8,313,260)	\$ 6,661,209
	COLLATERALIZED MORTGAGE BACKED SECURITIES - 2.1% of Net Assets	
	Consumer Services - 0.4%	
	Restaurants - 0.4%	
1,245,000	DB Master Finance LLC, 8.285%, 6/20/31 (144A)	\$ 802,676
	Total Consumer Services	\$ 802,676
	Banks - 1.7%	
	Thrifths & Mortgage Finance - 1.7%	
720,000	(a) Carrington Mortgage Loan Trust, 0.571%, 10/25/3\$	610,930
1,504,000	(a) Carrington Mortgage Loan Trust, 0.671%, 2/25/37	933,214
432,416	(a) Countrywide Alternative Loan Trust, 0.801%, 10/25/	199,707
516,336	(a) Countrywide Alternative Loan Trust, 0.821%, 9/25/3	232,849
763,429	(a) Countrywide Alternative Loan Trust, 0.831%, 1/25/3	223,873
324,189	(a) Countrywide Home Loan Mortgage Pass Through Trust,	115,921
205,802	(a) First Franklin Mortgage Loan Asset Backed Certific	155,835
1,722,764	(a) Luminent Mortgage Trust, 0.731%, 7/25/36	269,062
441,530	(a) Structured Asset Mortgage Investments, Inc., 0.781	200,298
1,021,343	(a) WaMu Mortgage Pass Through Certificates, 0.781%, 4	482,161
245,726	(a) WaMu Mortgage Pass Through Certificates, 0.951%, 7	58,662
	Total Banks	\$ 3,482,512
	TOTAL COLLATERALIZED MORTGAGE OBLIGATIONS (Cost \$6,484,805)	\$ 4,285,188

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CORPORATE BONDS & NOTES - 136.2% of Net Assets			
Energy - 12.7%			
Oil & Gas Drilling - 1.0%			
3,924,838		\$	1,962,419
	DDI Holding AS, 9.3%, 1/19/12 (144A)		
Oil & Gas Equipment & Services - 4.1%			
600,000	(a) DP Producer AS, 8.201%, 12/5/11 (144A)	\$	30,000
3,975,000	Hawk Corp., 8.75%, 11/1/14		4,034,625
1,100,000	Nexus 1 Pte, Ltd., 10.5%, 3/7/12 (144A)		880,000
11,500,000	NOK Petrojack AS, 11.0%, 4/19/10		985,419
500,000	(a) PetroProd, Ltd., 10.75%, 1/12/12 (144A)		110,000
2,000,000	Sevan Marine ASA, 9.25%, 12/20/11 (144A)		1,000,000
3,500,000	Skeie Drilling & Production ASA, 11.25%, 3/8/13 (1	\$	8,090,044
Integrated Oil & Gas - 0.4%			
2,070,000	Tristan Oil, Ltd., 10.5%, 1/1/12 (144A)	\$	828,000
Oil & Gas Exploration & Production - 5.4%			
2,500,000	Norse Energy Corp. ASA, 6.5%, 7/14/11 (144A)	\$	1,625,000
3,000,000	NOK Norse Energy Corp. ASA, 10.0%, 7/13/10		321,332
9,000,000	NOK Norwegian Energy Co. AS, 11.0%, 7/13/10 (144A)		835,464
1,610,000	Parallel Petroleum Corp., 10.25%, 8/1/14		1,022,350
875,000	PetroHawk Energy Corp., 9.125%, 7/15/13		708,750
5,300,000	PetroQuest Energy, Inc., 10.375%, 5/15/12		3,657,000
3,145,000	Quicksilver Resources, Inc., 7.125%, 4/1/16		1,682,575
710,000	(a) SandRidge Energy, Inc., 7.508%, 4/1/14		377,589
1,070,000	(b) SandRidge Energy, Inc., 8.625%, 4/1/15	\$	556,400
Oil & Gas Refining & Marketing - 1.8%			
4,075,000	(n) Aventine Renewable Energy Holdings, Inc., 10.0%	\$	672,375
1,275,000	(a) Ohio Air Quality Development Authority Revenue, 10		153,000
2,120,000	(c) VeraSun Energy Corp., 9.375%, 6/1/17		254,400
4,280,000	(c) VeraSun Energy Corp., 9.875%, 12/15/12		2,568,000
Total Energy			
		\$	3,647,775
		\$	25,314,698
Materials - 16.6%			
Commodity Chemicals - 3.4%			
4,635,000	ARCO Chemical Co., 9.8%, 2/1/20	\$	509,850
4,750,000	Basell Finance Co., 8.1%, 3/15/27 (144A)		95,000
2,000,000	(n) Georgia Gulf Corp., 9.5%, 10/15/14		600,000
2,860,000	(n) Georgia Gulf Corp., 10.75%, 10/15/16		686,400
3,000,000	Hexion US Finance Corp., 9.75%, 11/15/14		855,000
4,500,000	Methanex Corp., 8.75%, 8/15/12		3,948,750
540,000	EURONell AF S.a.r.l., 8.375%, 8/15/15 (144A)	\$	22,519
Diversified Chemicals - 0.1%			
350,000	EUROIneos Group Holdings Plc, 7.875%, 2/15/16 (144A)		58,382
1,270,000	(n) Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)		114,300
Forestry - 0.4%			
1,645,000	Mandra Forestry Holdings, Ltd., 12.0%, 5/15/13	\$	822,500
Construction Materials - 1.9%			
4,500,000	AGY Holding Corp., 11.0%, 11/15/14	\$	2,700,000
2,185,000	(n) U.S. Concrete, Inc., 8.375%, 4/1/14		1,179,900
Metal & Glass Containers - 0.7%			
2,500,000	AEP Industries, Inc., 7.875%, 3/15/13	\$	1,412,500
Paper Packaging - 4.9%			
5,450,000	Exopack Holding Corp., 11.25%, 2/1/14	\$	3,188,250

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2,795,000		Graham Packaging Co., 9.875%, 10/15/14	1,718,925
5,540,000	(n)	Graphic Packaging International, Inc., 9.5%, 8/15/13	3,822,600
2,150,000		U.S. Corrugated, Inc., 10.0%, 6/1/13	1,032,000
		\$	9,761,775
		Aluminum - 0.6%	
1,200,000		Asia Aluminum Holdings, Ltd., 8.0%, 12/23/11 (1\$	372,000
3,180,000	(d)	Indalex Holding Corp., 11.5%, 2/1/14	357,750
705,000	(a)	(Noranda Aluminum Acquisition Corp., 6.595%, 5/15/13	239,700
800,000	(a)	(Noranda Aluminum Holdings Corp., 8.345%, 11/15/14	128,000
		\$	1,097,450
		Diversified Metals & Mining - 2.6%	
3,300,000		American Rock Salt Co. LLC, 9.5%, 3/15/14	\$ 2,986,500
825,000		Blaze Recycling & Metals LLC, 10.875%, 7/15/12 (14	618,750
2,890,000		FMG Finance Pty., Ltd., 10.625%, 9/1/16 (144A)	1,676,200
		\$	5,281,450
		Steel - 2.0%	
4,205,000		Algoma Acquisition Corp., 9.875%, 6/15/15 (144A\$	1,597,900
2,400,000		CSN Islands VIII Corp., 9.75%, 12/16/13 (144A)	2,448,000
		\$	4,045,900
		Total Materials	\$ 33,191,676
		Capital Goods - 7.6%	
		Aerospace & Defense - 1.2%	
3,600,000		Aeroflex, Inc., 11.75%, 2/15/15 (144A)	\$ 2,340,000
		Building Products - 0.5%	
1,935,000		Industrias Unidas SA de CV, 11.5%, 11/15/16 (14\$	483,750
1,500,000	(n)	Panolam Industries International, 10.75%, 10/1/13	600,000
		\$	1,083,750
		Heavy Electrical Equipment - 2.3%	
4,790,000		Altra Industrial Motion, 9.0%, 12/1/11	\$ 4,526,550
		Industrial Conglomerates - 0.5%	
2,515,000		Park-Ohio Industries, Inc., 8.375%, 11/15/14	\$ 1,031,150
		Construction & Farm Machinery & Heavy Trucks - 1.7%	
5,640,000	(n)	Accuride Corp., 8.5%, 2/1/15	\$ 1,847,100
3,250,000		Commercial Vehicle Group, Inc., 8.0%, 7/1/13	1,527,500
		\$	3,374,600
		Industrial Machinery - 1.2%	
2,440,000		Industrias Metalurgicas Pescarmona SA, 11.25%, \$	1,098,000
2,065,000		Mueller Water Products, Inc., 7.375%, 6/1/17	1,404,200
		\$	2,502,200
		Trading Companies & Distributors - 0.2%	
200,000		United Rentals North America, 6.5%, 2/15/12	\$ 158,000
370,000		Wesco Distribution, Inc., 7.5%, 10/15/17	241,887
		\$	399,887
		Total Capital Goods	\$ 15,258,137
		Commercial & Professional Services - 9.3%	
		Commercial Printing - 1.7%	
4,835,000		Sheridan Acquisition Corp., 10.25%, 8/15/11	\$ 3,390,544
		Diversified Commercial & Professional Services - 0.9%	
2,535,000	(n)	Aleris International, Inc., 10.0%, 12/15/16	\$ 411,937
4,450	(e)	MSX International UK, 12.5%, 4/1/12 (144A)	1,780,000
		\$	2,191,937
		Environmental & Facilities Services - 2.7%	
720,000		Clean Harbors, Inc., 11.25%, 7/15/12	\$ 721,800
5,800,000	(n)	Waste Services, Inc., 9.5%, 4/15/14	4,118,000
		\$	4,839,800

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	Office Services & Supplies - 4.0%		
11,830,000	Xerox Capital Trust I, 8.0%, 2/1/27	\$	8,078,589
	Total Commercial & Professional Services	\$	18,500,870
	Transportation - 1.9%		
	Air Freight & Logistics - 1.1%		
2,000,000	CEVA Group Plc, 10.0%, 9/1/14 (144A)	\$	1,482,500
1,545,000	EUROCEVA Group Plc, 10.0%, 12/1/16 (144A)		644,287
		\$	2,126,787
	Railroads - 0.8%		
1,750,000	Kansas City Southern de Mexico, 9.375%, 5/1/12	\$	1,601,250
	Total Transportation	\$	3,728,037
	Automobiles & Components - 4.6%		
	Auto Parts & Equipment - 4.6%		
500,000	(n) Allison Transmission, Inc., 11.0%, 11/1/15 (144\$		245,000
2,605,000	(b) (Allison Transmission, Inc., 11.25%, 11/1/15 (144A)		1,015,950
5,965,000	Cooper-Standard Automotive, Inc., 8.375%, 12/15/14		1,043,875
4,535,000	Lear Corp., 8.75%, 12/1/16		1,315,150
1,500,000	(f) Stanadyne Corp., 0.0%, 2/15/15		675,000
4,690,000	Stanadyne Corp., 10.0%, 8/15/14		3,189,200
4,235,000	(n) Tenneco Automotive, Inc., 8.625%, 11/15/14		1,609,300
		\$	9,093,475
	Total Automobiles & Components	\$	9,093,475
	Consumer Durables & Apparel - 2.8%		
	Homebuilding - 0.8%		
3,060,000	Meritage Homes Corp., 6.25%, 3/15/15	\$	1,621,800
	Housewares & Specialities - 1.7%		
1,435,000	(n) Jarden Corp., 7.5%, 5/1/17	\$	979,387
3,690,000	(n) Yankee Acquisition Corp., 8.5%, 2/15/15		1,720,462
1,500,000	(n) Yankee Acquisition Corp., 9.75%, 2/15/17		630,000
		\$	3,329,849
	Textiles - 0.3%		
1,000,000	Invista, 9.25%, 5/1/12 (144A)	\$	700,000
	Total Consumer Durables & Apparel	\$	5,651,649
	Consumer Services - 5.2%		
	Consumer Services - 1.1%		
2,698,571	(b) American Achievement Group Holding Corp., 14.75\$		871,198
3,080,000	(f) Visant Holding Corp., 10.25%, 12/1/13		2,279,200
		\$	3,150,398
	Casinos & Gaming - 3.5%		
1,650,000	Buffalo Thunder Development Authority, 9.375%, \$		330,000
890,000	FireKeepers Development Authority, 13.875%, 5/1/15		551,800
2,050,000	(n) Fontainebleau Las Vegas Holdings LLC, 10.25%, 6/15		199,875
630,000	(n) Galaxy Entertainment Finance Co., Ltd., 9.875%, 12		277,200
4,500,000	Little Traverse Bay Bands of Odawa Indians, 10.25%		2,835,000
530,000	Mashantucket Western Pequot Tribe, 8.5%, 11/15/15		208,025
1,585,000	Pokagon Gaming Authority, 10.375%, 6/15/14 (144A)		1,363,100
1,895,000	Shingle Springs Tribal Gaming Authority, 9.375%, 6		947,500
2,450,000	(c) Trump Entertainment Resorts, Inc., 8.5%, 6/1/15		324,625
		\$	7,037,125
	Leisure Facilities - 0.1%		
2,000,000	(a) (HRP Myrtle Beach Operations LLC, 7.383%, 4/1/12\$		100,000
	Total Consumer Services	\$	10,287,523
	Media - 8.6%		
	Broadcasting - 8.3%		
3,200,000	(n) CCH I Holdings LLC, 11.0%, 10/1/15	\$	560,000

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1,500,000	(n) CCH II Holdings LLC, 10.25%, 9/15/10		660,000
3,000,000	GCI, Inc., 7.25%, 2/15/14		2,340,000
2,200,000	(f) Inmarsat Finance II Plc, 10.375%, 11/15/12		1,949,750
2,500,000	Intelsat Corp., 9.25%, 6/15/16 (144A)		2,275,000
2,500,000	Intelsat Jackson Holdings, Ltd., 11.5%, 6/15/16 (1		2,250,000
1,000,000	Intelsat Subsidiary Holdings, 8.5%, 1/15/13 (144A)		925,000
3,750,000	EUROKabel Deutschland GMBH, 10.75%, 7/1/14		4,769,600
535,000	(n) Telesat Canada, 11.0%, 11/1/15 (144A)		382,525
3,865,000	(b) (Univision Communications, 9.75%, 3/15/15 (144A)		521,775
		\$	16,633,650
	Publishing - 0.3%		
1,400,000	TL Acquisitions, Inc., 10.5%, 1/15/15 (144A)	\$	574,000
	Total Media	\$	17,207,650
	Retailing - 3.5%		
	Distributors - 0.9%		
4,735,000	Intcomex, Inc., 11.75%, 1/15/11	\$	1,894,000
	Internet Retailing - 0.9%		
3,170,000	Ticketmaster, 10.75%, 8/1/16 (144A)	\$	1,711,800
	Automotive Retail - 0.1%		
820,000	(n) KAR Holdings, Inc., 10.0%, 5/1/15	\$	270,600
	Specialty Stores - 1.6%		
4,615,000	Sally Holdings LLC, 10.5%, 11/15/16	\$	3,138,200
	Total Retailing	\$	7,014,600
	Food & Staples Retailing - 0.9%		
	Drug Retail - 0.9%		
3,350,000	(n) Duane Reade, Inc., 9.75%, 8/1/11	\$	1,775,500
	Total Food & Staples Retailing	\$	1,775,500
	Food, Beverage & Tobacco - 5.5%		
	Brewers - 3.2%		
5,885,000	Cia Brasileira de Bebida, 10.5%, 12/15/11	\$	6,458,788
	Packaged Foods & Meats - 1.0%		
775,000	Bertin, Ltd., 10.25%, 10/5/16 (144A)	\$	426,250
500,000	Marfrig Overseas, Ltd., 9.625%, 11/16/16 (144A)		295,000
2,410,000	(n) Minerva Overseas, Ltd., 9.5%, 2/1/17 (144A)		1,325,500
		\$	2,046,750
	Tobacco - 1.2%		
1,365,000	Alliance One International, Inc., 8.5%, 5/15/12	\$	1,003,275
1,675,000	Alliance One International, Inc., 11.0%, 5/15/12		1,390,250
		\$	2,393,525
	Total Food, Beverage & Tobacco	\$	10,899,063
	Household & Personal Products - 0.5%		
	Household Products - 0.5%		
1,740,000	(n) Central Garden & Pet Co., 9.125%, 2/1/13	\$	1,026,600
	Total Household & Personal Products	\$	1,026,600
	Health Care Equipment & Services - 10.1%		
	Health Care Equipment & Services - 1.0%		
2,875,000	Accellent, Inc., 10.5%, 12/1/13	\$	1,969,375
	Health Care Supplies - 1.0%		
2,570,000	(b) Biomet, Inc., 10.375%, 10/15/17	\$	2,017,450
	Health Care Services - 3.6%		
2,160,000	AMR HoldCo, 10.0%, 2/15/15	\$	2,008,800

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4,055,000	Rural/Metro Corp., 9.875%, 3/15/15		3,244,000
3,725,000	Surgical Care Affiliates, Inc., 10.0%, 7/15/17 (14		1,937,000
		\$	7,189,800
	Health Care Facilities - 2.7%		
3,800,000	Hanger Orthopedic Group, Inc., 10.25%, 6/1/14	\$	3,401,000
2,555,000	(b) HCA, Inc., 9.625%, 11/15/16		1,992,900
		\$	5,393,900
	Managed Health Care - 1.8%		
4,400,000	Multiplan, Inc., 10.375%, 4/15/16 (144A)	\$	3,564,000
	Total Health Care Equipment & Services	\$	20,134,525
	Pharmaceuticals & Biotechnology & Life Sciences - 4.0%		
	Pharmaceuticals - 4.0%		
3,195,000	(n) Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	\$	686,925
2,000,000	Phibro Animal Health Corp., 10.0%, 8/1/13 (144A)		1,600,000
3,000,000	Phibro Animal Health Corp., 13.0%, 8/1/14 (144A)		2,340,000
3,817,000	Warner Chilcott Corp., 8.75%, 2/1/15		3,397,130
		\$	8,024,055
	Total Pharmaceuticals & Biotechnology & Life Sc\$		8,024,055
	Banks - 0.5%		
	Diversified Banks - 0.2%		
1,750,000	(a) (ALB Finance BV, 9.375%	\$	350,000
400,000	(a) Banco Macro SA, 10.75%, 6/7/12		116,000
		\$	466,000
	Regional Banks - 0.3%		
500,000	(a) (Wells Fargo Capital XV, 9.75%	\$	505,000
	Total Banks	\$	971,000
	Diversified Financials - 10.5%		
	Other Diversified Financial Services - 4.4%		
1,500,000	(a) (Citigroup, Inc., 8.4%	\$	990,435
7,950,000	GATX Financial Corp., 8.875%, 6/1/09		7,860,555
		\$	8,850,990
	Specialized Finance - 3.4%		
3,770,000	ACE Cash Express, Inc., 10.25%, 10/1/14 (144A)	\$	754,000
640,000	iPayment, Inc., 9.75%, 5/15/14		320,000
2,300,000	(a) (MBIA Insurance Co., 14.0% 1/15/33 (144A)		1,173,000
9,000,000	NCO Group, Inc., 11.875%, 11/15/14		4,500,000
		\$	6,747,000
	Consumer Finance - 2.7%		
3,000,000	(n) Ford Motor Credit Co., 7.875%, 6/15/10	\$	2,400,540
3,000,000	(a) Ford Motor Credit Co., 9.269%, 4/15/09		2,895,000
		\$	5,295,540
	Total Diversified Financials	\$	20,893,530
	Insurance - 8.0%		
	Insurance Brokers - 1.9%		
2,640,000	Alliant Holdings I, Inc., 11.0%, 5/1/15 (144A)	\$	1,425,600
3,765,000	HUB International Holdings, Inc., 10.25%, 6/15/15		1,661,306
900,000	(a) U.S.I. Holdings Corp., 6.024%, 11/15/14 (144A)		365,625
885,000	U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)		352,894
		\$	3,805,425
	Life & Health Insurance - 2.6%		
5,420,000	Presidential Life Corp., 7.875%, 2/15/09	\$	5,101,575
	Multi-Line Insurance - 0.9%		
3,075,000	(a) Liberty Mutual Group, Inc., 10.75%, 6/15/58 (14\$		1,691,250
	Property & Casualty Insurance -1.6%		
5,300,000	Allmerica Financial Corp., 7.625%, 10/15/25	\$	3,180,000

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	Reinsurance - 1.1%	
275,000	(a) EAtlas Reinsurance Plc, 15.487%, 1/10/11 (144A)	\$ 363,150
375,000	(a) Blue Fin, Ltd., 8.689% 4/10/12 (144A)	316,687
250,000	(a) Residential Reinsurance 2006, 12.203%, 6/5/09 (144	248,300
850,000	(a) Residential Reinsurance 2008, 13.703%, 6/6/11 (144	814,725
500,000	(a) Successor II, Ltd., 27.193%, 4/6/10 (144A)	476,050
		\$ 2,218,912
	Total Insurance	\$ 15,997,162
	Real Estate - 0.0%	
	Real Estate Operating Companies - 0.0%	
225,000	(a) Alto Palermo SA, 11.0%, 6/11/12 (144A)	\$ 78,750
	Total Real Estate	\$ 78,750
	Software & Services - 5.4%	
	IT Consulting & Other Services - 3.1%	
2,790,000	Activant Solutions, Inc., 9.5%, 5/1/16	\$ 1,297,350
5,745,000	Pegasus Solutions, Inc., 10.5%, 4/15/15 (144A)	3,906,600
1,705,000	Vangent, Inc., 9.625%, 2/15/15	991,031
		\$ 6,194,981
	Data Processing & Outsourced Services - 2.2%	
7,365,000	(n) First Data Corp., 9.875%, 9/24/15	\$ 4,455,825
	Application Software - 0.1%	
810,000	Open Solutions, Inc., 9.75%, 2/1/15 (144A)	\$ 121,500
	Total Software & Services	\$ 10,772,306
	Semiconductors & Semiconductor Equipment - 0.5%	
	Semiconductor Equipment - 0.5%	
750,000	(a) Freescale Semiconductor, Inc., 5.871%, 12/15/14	\$ 255,000
2,000,000	(b) Freescale Semiconductor, Inc., 9.125%, 12/15/14	460,000
750,000	(n) Freescale Semiconductor, Inc., 10.125%, 12/15/16	307,500
	Total Semiconductors & Semiconductor Equipment	\$ 1,022,500
	Telecommunication Services - 11.2%	
	Integrated Telecommunication Services - 4.1%	
4,165,000	Broadview Networks Holdings, Inc., 11.375%, 9/1	\$ 2,873,850
4,070,000	GC Impsat Holdings I Plc, 9.875%, 2/15/17 (144A)	2,442,000
3,865,000	(n) PAETEC Holding Corp., 9.5%, 7/15/15	2,299,675
691,000	(n) Tele Norte Leste Participacoes SA, 8.0%, 12/18/13	587,350
		\$ 8,202,875
	Wireless Telecommunication Services - 7.1%	
1,380,000	Cell C Property, Ltd., 11.0%, 7/1/15 (144A)	\$ 1,166,100
6,400,000	Cricket Communications, Inc., 9.375%, 11/1/14	5,760,000
1,500,000	Digicel, Ltd., 9.25%, 9/1/12 (144A)	1,275,000
2,500,000	(a) Hellas Telecommunications Luxembourg II, 10.503%,	500,000
5,290,000	Hughes Network Systems LLC, 9.5%, 4/15/14	4,298,125
3,020,000	True Move Co., Ltd., 10.75%, 12/16/13 (144A)	1,117,400
		\$ 14,116,625
	Total Telecommunication Services	\$ 22,319,500
	Utilities - 6.5%	
	Electric Utilities - 2.6%	
1,500,000	Mirant JPSCO. Finance, Ltd., 11.0%, 7/6/16 (144	\$ 1,125,000
2,220,000	(g) Rede Empresas de Energia Electrica SA, 11.125%, (1	1,046,175
4,345,000	(n) Texas Computer Electric Hold LLC, 10.25%, 11/1/15	3,084,950
		\$ 5,256,125
	Multi - Utilities - 0.5%	
1,325,000	PNM Resources, Inc., 9.25%, 5/15/15	\$ 1,053,375
	Independent Power Producers & Energy Traders - 3.4%	

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2,000,000	(n)	Aes Chivor SA ESP, 9.75%, 12/30/14 (144A)	\$	1,850,000
3,200,000		Biofuel Energy ASA, 10.0%, 6/7/12		2,560,000
2,800,000		Intergen NV, 9.0%, 6/30/17 (144A)		2,296,000
			\$	6,706,000
		Total Utilities	\$	13,015,500
		TOTAL CORPORATE BONDS & NOTES		
		(Cost \$440,839,098)	\$	272,178,306
		CONVERTIBLE BONDS & NOTES - 5.0% of Net Assets		
		Energy - 1.9%		
		Oil & Gas Drilling - 1.5%		
1,510,000	(f)	Hercules Offshore, Inc., 3.375%, 6/1/38 (144A)	\$	690,825
1,600,000		Transocean, Ltd., 1.5%, 12/15/37,		1,296,000
1,175,000		Transocean, Ltd., 1.625%, 12/15/37		1,023,719
			\$	3,010,544
		Oil & Gas Exploration & Production - 0.4%		
1,340,000		Chesapeake Energy Corp., 2.5%, 5/15/37	\$	782,225
		Total Energy	\$	3,792,769
		Transportation - 0.7%		
		Marine - 0.7%		
2,595,000		Horizon Lines, Inc., 4.25%, 8/15/12	\$	1,329,937
		Total Transportation	\$	1,329,937
		Health Care Equipment & Services - 1.4%		
		Health Care Services - 0.3%		
1,210,000		Omnicare, Inc., 3.25%, 12/15/35	\$	679,112
		Health Care Facilities - 1.1%		
1,985,000		LifePoint Hospitals, Inc., 3.25%, 8/15/25	\$	1,426,719
1,070,000		LifePoint Hospitals, Inc., 3.5%, 5/15/14		723,588
			\$	2,150,307
		Total Health Care Equipment & Services	\$	2,829,419
		Technology Hardware & Equipment - 0.3%		
		Communications Equipment - 0.2%		
2,580,000	(n)	Nortel Networks Corp., 2.125%, 4/15/14	\$	361,200
		Electronic Manufacturing Services - 0.1%		
360,000		Flextronics International, Ltd., 1.0%, 8/1/10	\$	297,000
		Total Technology Hardware & Equipment	\$	658,200
		Telecommunication Services - 0.7%		
		Alternative Carriers - 0.7%		
2,190,000		Time Warner Telecom, Inc., 2.375%, 4/1/26	\$	1,390,650
		Total Telecommunication Services	\$	1,390,650
		TOTAL CONVERTIBLE BONDS & NOTES	\$	10,000,975
		(Cost \$12,004,370)		
		MUNICIPAL BONDS - 7.2% of Net Assets		
		Indiana - 2.8%		
1,650,000		East Chicago Industrial Pollution Control Reven\$	\$	1,490,841
4,250,000		Indiana Development Finance Authority Revenue, 5.7		3,985,735
			\$	5,476,576
		New Jersey - 1.2%		
4,525,000		New Jersey Economic Development Authority Reven\$		2,389,607
		New York - 1.1%		
3,475,000		New York City Industrial Development Agency Rev\$		2,267,229
		North Carolina - 2.1%		
6,300,000		Charlotte Special Facilities Refunding Revenue,\$		3,054,051

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2,000,000	Charlotte Special Facilities Refunding Revenue, 7.	1,182,940
	\$	4,236,991
	TOTAL MUNICIPAL BONDS	
	(Cost \$16,297,863)	\$ 14,370,403
MUNICIPAL COLLATERALIZED DEBT OBLIGATION - 1.4% of Net Assets		
3,300,000	(h) Non-Profit Preferred Funding Trust I, 12.0%, 9/\$	2,864,367
	TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION	
	(Cost \$3,293,400)	\$ 2,864,367
SOVEREIGN DEBT OBLIGATIONS - 3.0% of Net Assets		
Brazil - 1.7%		
4,800,000,0	(f) IBanco Nacional de Desenvolvimento Bndes, 8.0%, 4\$	3,394,236
Ecuador - 0.3%		
2,015,000	(f) (Federal Republic of Ecuador, 10.0%, 8/15/30 (14\$	523,900
Russia - 1.0%		
2,273,600	(f) Russia Government International Bond, 7.5%, 3/3\$	1,982,943
	TOTAL SOVEREIGN DEBT OBLIGATIONS	
	(Cost \$5,417,555)	\$ 5,901,079
FLOATING RATE LOAN INTERESTS - 4.4% of Net Assets (i)		
Energy - 0.2%		
Oil & Gas Exploration & Production - 0.2%		
600,000	Venoco, Inc., Second Lien Term Loan, 6.25%, 5/7\$	393,750
	Total Energy	\$ 393,750
Materials - 0.5%		
Steel - 0.5%		
2,265,500	Niagara Corp., Term Loan, 5.461%, 6/30/14	\$ 1,042,130
	Total Materials	\$ 1,042,130
Capital Goods - 0.8%		
Building Products - 0.7%		
172,620	Custom Building Products, Inc., First Lien Term\$	118,820
2,250,000	Custom Building Products, Inc., Second Lien Term L	1,282,500
	\$	1,401,320
Construction & Farm Machinery & Heavy Trucks - 0.1%		
397,920	Rental Service Corp., Second Lien Initial Term \$	213,882
	Total Capital Goods	\$ 1,615,202
Consumer Durables & Apparel - 0.1%		
Homebuilding - 0.1%		
2,850,000	(c) LandSource Communities Development LLC, Second \$	98,562
	Total Consumer Durables & Apparel	\$ 98,562
Consumer Services - 0.3%		
Casinos & Gaming - 0.3%		
2,500,000	Gateway Casinos & Entertainment, Advance Second\$	670,832
	Total Consumer Services	\$ 670,832
Household & Personal Products - 0.1%		
Household Products - 0.1%		
143,238	Central Garden & Pet Company, Tranche B Term Lo\$	93,821
	Total Household & Personl Products	\$ 93,821
Health Care Equipment & Services - 0.7%		
Health Care Equipment & Services - 0.7%		
1,484,849	Talecris Biotherapeutics Holdings Corp., First \$	1,302,955
	Total Health Care Equipment & Services	\$ 1,302,955

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		Diversified Financials - 1.1%		
		Other Diversified Financial Services - 1.1%		
2,422,767	(b)	ELouis Topco, Ltd., Term Loan, 11.536%, 6/1/17	\$	2,252,190
		Total Diversified Financials	\$	2,252,190
		Insurance - 0.6%		
		Multi-Line Insurance - 0.6%		
247,488		AmWins Group, Inc., Initial Term Loan 3.47%	\$	146,018
2,250,000		AmWins Group, Inc., Second Lien Initial Term Loan,		1,125,000
		Total Insurance	\$	1,271,018
		TOTAL FLOATING RATE LOAN INTERESTS		
		(Cost \$17,871,617)	\$	8,740,460
Shares		COMMON STOCKS - 0.9% of Net Assets		
		Transportation - 0.5%		
		Airlines - 0.5%		
96,157	(j)	(Delta Airlines, Inc.	\$	1,101,959
		Total Transportation	\$	1,101,959
		Pharmaceuticals & Biotechnology & Life Sciences - 0.4%		
		Pharmaceuticals - 0.4%		
17,818	(n)	Teva Pharmaceutical Industries, Ltd. (A.D.R.)	\$	758,512
		Total Pharmaceuticals & Biotechnology & Life Sc		758,512
		TOTAL COMMON STOCKS		
		(Cost \$2,886,219)	\$	1,860,471
		CONVERTIBLE PREFERRED STOCK - 0.9% of Net Assets		
		Diversified Financials - 0.9%		
		Other Diversified Financial Services - 0.9%		
2,755		Bank of America Corp., 7.25%	\$	1,790,750
		TOTAL CONVERTIBLE PREFERRED STOCK		
		(Cost \$2,108,446)	\$	1,790,750
		WARRANTS - 0.2% of Net Assets		
		Energy - 0.2%		
		Oil & Gas Exploration & Production - 0.2%		
2,500,000	(j)	Norse Energy Corp. ASA - CW11, Expires 7/14/11	\$	399,880
		Total Energy	\$	399,880
		Diversified Financials - 0.0%		
		Other Diversified Financial Services- 0.0%		
1,645	(j)	Mandra Forestry Holdings, Ltd. - CW13, Expires	\$	98,700
		Total Diversified Financials	\$	98,700
		Utilities- 0.0%		
		Independent Power Producer & Energy Traders- 0.0%		
150,592	(j)	Biofuel Energy ASA, Expires 6/7/12	\$	0
		Total Utilities	\$	0
		TOTAL WARRANTS		
		(Cost \$523,408)	\$	498,580
		TEMPORARY CASH INVESTMENTS - 20.3% of Net Assets		
		Security Lending Collateral - 20.3%(k)		
		Certificates of Deposit:		
939,059		Abbey National Plc, 3.15%, 8/13/09	\$	939,059
938,932		Bank of Nova Scotia, 3.21%, 5/5/09		938,932
1,500,688		Bank of Scotland NY, 2.92%, 6/5/09		1,500,688
1,690,307		Barclays Bank, 1.5%, 5/27/09		1,690,307
298,562		Calyon NY, 4.62%, 1/16/09		298,562
1,878,119		CBA, 4.87%, 7/16/09		1,878,119
1,690,307		DNB NOR Bank ASA NY, 3.04%, 6/5/09		1,690,307
1,720,357		Intesa SanPaolo S.p.A., 1.44%, 5/22/09		1,720,357

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108,783	NORDEA NY, 4.13%, 4/9/09	108,783
1,408,589	Royal Bank of Canada NY, 2.7%, 8/7/09	1,408,589
939,059	Royal Bank of Scotland, 3.06%, 3/5/09	939,059
187,725	Skandinavian Enskilda Bank NY, 3.06%, 2/13/09	187,725
1,878,119	Societe Generale, 3.29%, 9/4/09	1,878,119
1,690,307	Svenska Bank NY, 4.61%, 7/8/09	1,690,307
1,878,119	U.S. Bank NA, 2.25%, 8/24/09	1,878,119
	\$	18,747,032
	Commercial Paper:	
1,844,312	American Honda Finance Corp., 4.95%, 7/14/09	\$ 1,844,312
178,964	BBVA U.S., 2.83%, 3/12/09	178,964
939,059	CME Group, Inc., 2.9%, 8/6/09	939,059
938,960	General Electric Capital Corp., 2.86%, 3/16/09	938,960
1,878,119	HSBC Bank, Inc., 2.5%, 8/14/09	1,878,119
939,059	IBM, 2.39%, 9/25/09	939,059
1,690,307	Met Life Global Funding, 3.19%, 6/12/09	1,690,307
1,878,119	Monumental Global Funding, Ltd., 2.5%, 8/17/09	1,878,119
1,690,307	New York Life Global, 2.13%, 9/4/09	1,690,307
1,596,401	Westpac Banking Corp., 2.34%, 6/1/09	1,596,401
	\$	13,573,607
	Tri-party Repurchase Agreements:	
319,055	Barclays Capital Markets, 0.5%, 1/2/09	\$ 319,055
4,131,861	Deutsche Bank AG, 0.25%, 1/2/09	4,131,861
	\$	4,450,916
	Time Deposit:	
1,878,119	BNP Paribas, 0.01%, 1/2/09	\$ 1,878,119
	Money Market Mutual Fund:	
469,530	Columbia Government Reserves Fund	\$ 469,530
1,408,589	JP Morgan, U.S. Government Money Market Fund	1,408,589
	\$	1,878,119
	TOTAL SECURITIES LENDING COLLATERAL	\$ 40,527,793
	TOTAL TEMPORARY CASH INVESTMENTS	
	(Cost \$40,527,793)	\$ 40,527,793
	TOTAL INVESTMENTS IN SECURITIES - 184.9%	
	(Cost \$556,567,834) (1) (m)	\$ 369,679,581
	OTHER ASSETS AND LIABILITIES - (9.4)%	\$ (18,770,313)
	PREFERRED SHARES AT REDEMPTION VALUE,	
	INCLUDING DIVIDENDS PAYABLE - (75.5)%	\$ (151,003,846)
	NET ASSETS APPLICABLE TO COMMON SHAREOWNERS - 1\$	199,905,422

NR Security not rated by S&P or Moody's.

(144A) Security is exempt from registration under Rule 144A of the Securities Act of 1933. Such securities may be resold normally to qualified institutional buyers in a transaction exempt from registration. At December 31, 2008, the value of these securities amounted to \$89,423,551 or 44.7% of total net assets applicable to common shareowners.

(a) Floating rate note. The rate shown is the coupon rate at December 31, 2008.

(b) Payment-in Kind (PIK) security which may pay interest in additional principal amount.

(c) Security is in default and is non-income producing.

(d) On December 31, 2008, the security was not in default but

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defaulted after the period end.

- (e) Security is priced as a unit.
- (f) Debt obligation initially issued at one coupon which converts to a higher coupon at a specific date.
The rate shown is the rate at December 31, 2008.
- (g) Security is a perpetual bond and has no definite maturity date.
- (h) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is \$3,293,400. The aggregate value \$2,864,367 represents 1.4% of total net assets applicable to common shareowners.
- (i) Floating rate loan interests in which the Trust invests generally pay interest at rates that are periodically redetermined by reference to a base lending rate plus a premium. These base lending rates are generally (i) the lending rate offered by one or more major European banks, such as LIBOR (London InterBank Offered Rate), (ii) the prime rate offered by one or more major United States banks, (iii) the certificate of deposit (iv) other base lending rates used by commercial lenders. The interest rate shown is the rate accruing at December 31, 2008.
- (j) Non-income producing.
- (k) Security lending collateral is managed by Credit Suisse.
- (l) At December 31, 2008, the net unrealized loss on investments based on cost for federal income tax purposes of \$557,162,090 was as follows:
- | | |
|--|------------------|
| Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost | \$ 4,368,944 |
| Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value | (191,581,453) |
| Net unrealized loss | \$ (187,212,509) |
- For financial reporting purposes net unrealized loss was \$186,888,253 and cost of investments aggregated \$556,567,834
- (m) At December 31, 2008, the following securities were out on loan:

Principal Amount USD(\$)	Description	Market Value
5,583,000	Accuride Corp., 8.5%, 2/1/15	\$ 2,026,166
1,130,000	Aes Chivor SA ESP, 9.75%, 12/30/14 (144A)	1,045,250
2,353,000	Aleris International, Inc., 10.0%, 12/15/16	392,819
450,000	Allison Transmission, Inc., 11.0%, 11/1/15 (144A)	228,750
2,192,000	Allison Transmission, Inc., 11.25%, 11/1/15 (144A)	906,940
3,163,000	Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	741,329
3,642,000	Aventine Renewable Energy Holdings, Inc., 10.0%, 4/1/15	691,980
3,068,000	CCH I Holdings LLC, 11.0%, 10/1/15	593,146
1,400,000	CCH II Holdings LLC, 10.25%, 9/15/10	658,253
1,722,000	Central Garden & Pet Co., 9.125%, 2/1/13	1,081,453
3,316,000	Duane Reade, Inc., 9.75%, 8/1/11	1,892,192
6,350,000	First Data Corp., 9.875%, 9/24/15	4,000,259
125,000	Fontainebleau Las Vegas Holdings LLC, 10.25%, 6/15	12,757
2,690,000	Ford Motor Credit Co., 9.269%, 4/15/09	2,161,899
692,000	Freescale Semiconductor, Inc., 10.125%, 12/15/16	286,833

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500,000	Freescale Semiconductor, Inc., 9.125%, 12/15/14	117,028
600,000	Galaxy Entertainment Finance Co., Ltd., 9.875%, 12	266,633
1,980,000	Georgia Gulf Corp., 9.5%, 10/15/14	633,711
2,830,000	Georgia Gulf Corp., 10.75%, 10/15/16	743,425
4,404,000	Graphic Packaging International, Inc., 9.5%, 8/15/	3,196,816
1,700,000	Hellas Telecommunications Luxembourg II, 10.503%,	378,189
1,000,000	Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)	122,111
1,210,000	Jarden Corp., 7.5%, 5/1/17	840,950
200,000	KAR Holdings, Inc., 10.0%, 5/1/15	69,333
1,803,000	MBIA Insurance Co., 14.0% 1/15/33 (144A)	1,035,924
2,365,000	Minerva Overseas, Ltd., 9.5%, 2/1/17 (144A)	1,393,739
125,000	Nortel Networks Corp., 2.125%, 4/15/14	18,061
2,800,000	PAETEC Holding Corp., 9.5%, 7/15/15	1,788,657
1,485,000	Panolam Industries International, 10.75%, 10/1/13	633,909
105,000	Tele Norte Leste Participacoes SA, 8.0%, 12/18/13	89,530
529,000	Telesat Canada, 11.0%, 11/1/15 (144A)	387,933
4,192,000	Tenneco Automotive, Inc., 8.625%, 11/15/14	1,639,160
3,815,000	Texas Computer Electric Hold LLC, 10.25%, 11/1/15	2,775,412
2,230,000	Univision Communications, 9.75%, 3/15/15 (144A)	342,769
2,000,000	U.S. Concrete, Inc., 8.375%, 4/1/14	1,121,876
1,898,000	VeraSun Energy Corp., 9.375%, 6/1/17	161,034
4,230,000	VeraSun Energy Corp., 9.875%, 12/15/12	2,583,003
70,000	Waste Services, Inc., 9.5%, 4/15/14	51,104
3,650,000	Yankee Acquisition Corp., 8.5%, 2/15/15	1,819,017
1,485,000	Yankee Acquisition Corp., 9.75%, 2/15/17	678,397
5,000	Delta Airlines, Inc.	57,300
11,100	Teva Pharmaceutical Industries, Ltd. (A.D.R.)	472,527
	\$	40,137,574

Note: Principal amounts are denominated in U.S. dollars unless otherwise denoted.

Euro EURO
 Italian Lira ITL
 Norwegian KroneNOK

Glossary of Terms:
 (A.D.R.) American Depositary Receipt

Various inputs are used in determining the value of the Trust's investments. These inputs are summarized in the three broad levels listed below. Highest priority is given to Level 1 inputs and lowest priority is given to Level 3.

Level 1 - quoted prices in active markets for identical securities
 Level 2 - other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.)
 Level 3 - significant unobservable inputs (including the Trust's own assumptions in determining fair value of investments)

The following is a summary of the inputs used as of December 31, 2008, in valuing the Trust's investments:

Valuation Input	Investments in Securities	Other Financial Instruments*
Level 1 - Quote	\$2,260,351	\$ 1,738,695
Level 2 - Other		0
Level 3 - Signi		0
Total	\$369,679,581	\$ 1,738,695

* Other financial instruments include foreign exchange contracts.

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ITEM 2. CONTROLS AND PROCEDURES.

(a) Disclose the conclusions of the registrant's principal executive officer or officers and principal financial officer or officers, or persons performing similar functions, about the effectiveness of the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Act (17 CFR 270.30a-3(c))) as of a date within 90 days of the filing date of the report that includes the disclosure required by this paragraph, based on their evaluation of these controls and procedures required by Rule 30a-3(b) under the Act (17 CFR 270.30a-3(b)) and Rule 13a-15(b) or 15d-15(b) under the Exchange Act (17 CFR 240.13a-15(b) or 240.15d-15(b)).

The registrant's principal executive officer and principal financial officer have concluded that the registrant's disclosure controls and procedures are effective based on their evaluation of these controls and procedures as of a date within 90 days of the filing date of this report.

(b) Disclose any change in the registrant's internal controls over financial reporting (as defined in Rule 30a-3(d) under the Act (17 CFR 270.30a-3(d))) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

There were no significant changes in the registrant's internal control over financial reporting that occurred during the second fiscal quarter of the period covered by this report that have materially affected, or are reasonably likely to materially affect, the registrant's internal control over financial reporting.

ITEM 3. EXHIBITS.

(a) A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2 under the Act (17 CFR 270.30a-2).

Filed herewith.

SIGNATURES

[See General Instruction F]

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.

(Registrant) Pioneer High Income Trust

By (Signature and Title)* /s/ John F. Cogan, Jr.
John F. Cogan, Jr, President

Date February 27, 2009

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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 (Signature and Title)* /s/ John F. Cogan, Jr.
John F. Cogan, Jr., President

Date February 27, 2009

By (Signature and Title)* /s/ Mark Bradley
Mark Bradley, Treasurer

Date February 27, 2009

* Print the name and title of each signing officer under his or her signature.