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PIONEER HIGH INCOME TRUST
Form N-Q
August 26, 2008

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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: June 30, 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 (\$)	Pioneer High Income Trust SCHEDULE OF Investments 6/30/08 (unaudited)	Value (\$)
	ASSET BACKED SECURITIES - 2.0%	
	Transportation - 0.3%	
	Airlines - 0.3%	
792,554	(m) American Airlines, Inc., 7.379%, 11/23/17	507,235
691,667	Continental Airlines, Inc., Series B, 8.499%,	636,334
	Total Transportation	1,143,569
	Banks - 0.1%	
	Thriffs & Mortgage Finance - 0.1%	
531,443	(a) ACE Securities Corp., 3.083%, 12/25/34	427,506
	Total Banks	427,506
	Utilities - 1.6%	
	Electric Utilities - 1.1%	
4,110,220	Ormat Funding Corp., 8.25%, 12/30/20	4,048,566
	Multi - Utilities - 0.5%	
2,175,000	(a) Power Contract Financing III LLC, 1.332%, 2/5/11,	881,375
	Total Utilities	5,929,941
	TOTAL ASSET BACKED SECURITIES (Cost \$7,815,854)	7,501,016
	COLLATERALIZED MORTGAGE BACKED SECURITIES - 1.3%	
	Consumer Services - 0.3%	
	Restaurants - 0.3%	
1,245,000	DB Master Finance LLC, 8.285%, 6/20/31 (144A)	1,104,589
	Total Consumer Services	1,104,589
	Banks - 1.0%	
	Thriffs & Mortgage Finance - 1.0%	
440,000	(a) Carrington Mortgage Loan Trust, 2.583%, 10/25/34	19,118
1,504,000	(a) Carrington Mortgage Loan Trust, 2.683%, 2/25/37	1,337,702
1,790,514	(a) Luminent Mortgage Trust, 2.743%, 7/25/36	705,236
1,086,021	(a) WaMu Mortgage Pass Through Certificates, 2.713%	853,347
		3,315,403
	Diversified Financials - 0.0%	
	Other Diversified Financial Services - 0.0%	
174,192	(a) First Franklin Mortgage Loan Asset Backed Certi	165,098
	Total Banks	3,480,501
	TOTAL COLLATERALIZED MORTGAGE OBLIGATIONS (Cost \$4,742,711)	4,585,090
	CORPORATE BONDS & NOTES - 114.8%	
	Energy - 14.2%	
	Oil & Gas Drilling - 3.9%	
3,924,838	DDI Holding AS, 9.3%, 1/19/12 (144A)	3,905,214
2,500,000	Norse Energy Corp. ASA, 6.5%, 7/14/11 (144A)	2,050,000
NOK 3,000,000	Norse Energy Corp. ASA, 10.0%, 7/13/10	556,597
NOK 11,500,000	Norwegian Energy Co. AS, 11.0%, 7/13/10 (144A)	2,167,490
NOK 11,500,000	Petrojack AS, 11.0%, 4/19/10	2,280,380

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3,500,000	Skeie Drilling & Production ASA, 11.25%, 3/8/13	237,500
		14,197,181
	Oil & Gas Equipment & Services - 1.1%	
600,000	(a)DP Producer AS, 8.673%, 12/5/11 (144A)	534,000
1,100,000	Nexus 1 Pte, Ltd., 10.5%, 3/7/12 (144A)	990,000
500,000	(a)PetroProd, Ltd., 8.71%, 1/12/12 (144A)	470,000
2,000,000	Sevan Marine ASA, 9.25%, 12/20/11 (144A)	2,000,000
		3,994,000
	Oil & Gas Exploration & Production - 6.8%	
6,584,000	Baytex Energy, Ltd., 9.625%, 7/15/10	6,715,680
3,200,000	Biofuel Energy ASA, 10.0%, 6/7/12	2,656,000
4,500,000	Methanex Corp., 8.75%, 8/15/12	4,758,750
1,610,000	Parallel Petroleum Corp., 10.25%, 8/1/14	1,614,025
5,300,000	PetroQuest Energy, Inc., 10.375%, 5/15/12	5,512,000
710,000	(a)SandRidge Energy, Inc., 6.323%, 4/1/14 (144A)	696,757
1,070,000	(b)SandRidge Energy, Inc., 8.625%, 4/1/15 (144A)	1,096,750
2,070,000	Tristan Oil, Ltd., 10.5%, 1/1/12 (144A)	2,028,600
		25,078,562
	Oil & Gas Refining & Marketing - 2.4%	
5,075,000	(m)Aventine Renewable Energy Holdings, Inc., 10.0%	3,146,500
1,275,000	(a)Ohio Air Quality Development Authority Revenue	828,750
2,370,000	(m)VeraSun Energy Corp., 9.375%, 6/1/17	1,220,550
4,280,000	(m)VeraSun Energy Corp., 9.875%, 12/15/12	3,761,050
		8,956,850
	Total Energy	52,226,593
	Materials - 18.9%	
	Commodity Chemicals - 2.9%	
4,635,000	ARCO Chemical Co., 9.8%, 2/1/20	3,684,825
2,000,000	(m)Georgia Gulf Corp., 9.5%, 10/15/14	1,495,000
2,860,000	(m)Georgia Gulf Corp., 10.75%, 10/15/16	1,716,000
3,000,000	Hexion US Finance Corp./Hexion Nova Scotia Fina	2,715,000
1,000,000	Invista, 9.25%, 5/1/12 (144A)	1,022,500
		10,633,325
	Diversified Chemicals - 1.3%	
4,750,000	Basell Finance Co., 8.1%, 3/15/27 (144A)	2,850,000
EURO 350,000	Ineos Group Holdings Plc, 7.875%, 2/15/16 (144A)	357,058
1,500,000	(m)Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)	986,250
EURO 540,000	Nell AF S.a.r.l., 8.375%, 8/15/15 (144A)	550,890
		4,744,198
	Specialty Chemicals - 0.5%	
2,250,000	Tronox Worldwide LLC, 9.5%, 12/1/12	1,833,750
	Construction Materials - 2.0%	
4,500,000	AGY Holding Corp., 11.0%, 11/15/14 (144A)	4,196,250
1,500,000	(m)Panolam Industries International, 10.75%, 10/1/1	1,185,000
2,185,000	U.S. Concrete, Inc., 8.375%, 4/1/14	1,939,188
		7,320,438
	Paper Packaging - 3.8%	
5,450,000	Exopack Holding Corp., 11.25%, 2/1/14	5,054,875
2,255,000	Graham Packaging Co., 9.875%, 10/15/14	1,995,675
5,540,000	(m)Graphic Packaging International, Inc., 9.5%, 8/5	5,290,700
2,150,000	U.S. Corrugated, Inc., 10.0%, 6/1/13	1,569,500
		13,910,750
	Aluminum - 1.7%	
2,535,000	(m)Aleris International, Inc., 10.0%, 12/15/16	1,856,888
1,200,000	Asia Aluminum Holdings, Ltd., 8.0%, 12/23/11 (11	1,140,000
3,180,000	Indalex Holding Corp., 11.5%, 2/1/14	1,868,250
705,000	(a)Noranda Aluminum Acquisition Corp., 6.828%, 5/16	808,063
800,000	(a)Noranda Aluminum Holdings Corp., 8.578%, 11/15/	656,000
		6,129,201
	Diversified Metals & Mining - 4.3%	

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3,300,000	American Rock Salt Co. LLC, 9.5%, 3/15/14	3,465,000
3,000,000	FMG Finance Pty., Ltd., 10.625%, 9/1/16 (144A)	3,495,000
2,440,000	Industrias Metalurgicas Pescarmona SA, 11.25%	2,196,000
3,975,000	PNA Group, Inc., 10.75%, 9/1/16	4,670,625
1,870,000	(a)PNA Intermediate Holding Corp., 9.676%, 2/15/13	1,860,650
		15,687,275
	Steel - 2.0%	
4,205,000	Algoma Acquisition Corp., 9.875%, 6/15/15 (144A3)	3,994,750
825,000	Blaze Recycling & Metals LLC, 10.875%, 7/15/12	808,500
2,400,000	CSN Islands VIII Corp., 9.75%, 12/16/13 (144A)	2,742,000
		7,545,250
	Forest Products - 0.4%	
1,645,000	Mandra Forestry Holdings, Ltd., 12.0%, 5/15/13	1,529,850
	Total Materials	69,334,037
	Capital Goods - 7.2%	
	Building Products - 0.5%	
2,500,000	(m) Industrias Unidas SA de CV, 11.5%, 11/15/16	(11,625,000)
	Electrical Components & Equipment - 0.6%	
2,220,000	(c)Rede Empresas de Energia Electrica SA, (144A)	2,175,600
	Heavy Electrical Equipment - 2.4%	
4,790,000	Altra Industrial Motion, 9.0%, 12/1/11	4,885,800
3,975,000	Hawk Corp., 8.75%, 11/1/14	4,029,656
		8,915,456
	Construction & Farm Machinery & Heavy Truck - 3.7%	
4,900,000	(m)Accuride Corp., 8.5%, 2/1/15	3,601,500
1,855,000	(b)Allison Transmission Inc., 11.25%, 11/1/15 (144)	1,595,300
3,250,000	Commercial Vehicle Group, Inc., 8.0%, 7/1/13	2,819,375
1,500,000	(d)Stanadyne Corp., 0.0%, 2/15/15	1,140,000
4,690,000	Stanadyne Corp., 10.0%, 8/15/14	4,549,300
		13,705,475
	Total Capital Goods	26,421,531
	Commercial Services & Supplies - 6.2%	
	Trading Companies & Distributors - 0.0%	
200,000	United Rentals North America, 6.5%, 2/15/12	180,000
	Diversified Commercial & Professional Services - 3.4%	
3,500,000	Allied Security Escrow, 11.375%, 7/15/11	3,010,000
9,000,000	NCO Group, Inc., 11.875%, 11/15/14	7,380,000
2,515,000	Park-Ohio Industries, Inc., 8.375%, 11/15/14	2,012,000
		12,402,000
	Environmental & Facilities Services - 2.8%	
4,088,000	Clean Harbors, Inc., 11.25%, 7/15/12	4,328,170
5,800,000	Waste Services, Inc., 9.5%, 4/15/14	5,858,000
		10,186,170
	Total Commercial Services & Supplies	22,768,170
	Transportation - 2.1%	
	Air Freight & Logistics - 1.0%	
2,000,000	CEVA Group Plc, 10.0%, 9/1/14 (144A)	2,055,000
EURO 1,545,000	CEVA Group Plc, 10.0%, 12/1/16 (144A)	1,722,211
		3,777,211
	Marine - 0.6%	
2,160,000	Trailer Bridge, Inc., 9.25%, 11/15/11	1,992,600
	Railroads - 0.5%	
1,750,000	Kansas City Southern de Mexico, 9.375%, 5/1/12	1,820,000
	Total Transportation	7,589,811

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	Automobiles & Components - 1.7%	
	Auto Parts & Equipment - 1.7%	
5,965,000	(m) Cooper-Standard Automotive, Inc., 8.375%, 12/15	4,384,275
2,500,000	Lear Corp., 8.75%, 12/1/16	1,950,000
	Total Automobiles & Components	6,334,275
	Consumer Durables & Apparel - 1.4%	
	Homebuilding - 0.7%	
3,060,000	Meritage Homes Corp., 6.25%, 3/15/15	2,448,000
	Household Products - 0.7%	
2,665,000	Yankee Acquisition Corp., 8.5%, 2/15/15	2,078,700
735,000	(m) Yankee Acquisition Corp., 9.75%, 2/15/17	529,200
		2,607,900
	Total Consumer Durables & Apparel	5,055,900
	Consumer Services - 4.0%	
	Casinos & Gaming - 3.5%	
1,650,000	Buffalo Thunder Development Authority, 9.375%, 1,105,500	
655,000	FireKeepers Development Authority, 13.875%, 5/16	40,263
2,050,000	Fontainebleau Las Vegas Holdings LLC/Fontainebl	1,332,500
630,000	Galaxy Entertainment Finance Co., Ltd., 9.875%	611,888
4,500,000	Little Traverse Bay Bands of Odawa Indians, 10.4	207,500
530,000	Mashantucket Western Pequot Tribe, 8.5%, 11/15	467,725
1,585,000	Pokagon Gaming Authority, 10.375%, 6/15/14	(1441,699,913
1,750,000	Shingle Springs Tribal Gaming Authority, 9.375%	1,421,875
2,450,000	(m) Trump Entertainment Resorts, Inc., 8.5%, 6/1/15	151,525,125
		13,012,289
	Hotels, Resorts & Cruise Lines - 0.5%	
2,000,000	(a) HRP Myrtle Beach Operations LLC, 7.383%, 4/1/12	121,720,000
	Total Consumer Services	14,732,289
	Media - 6.5%	
	Broadcasting & Cable Television - 3.4%	
3,200,000	(m) CCH I Holdings LLC, 11.0%, 10/1/15	2,372,000
1,500,000	(m) CCH II Holdings LLC, 10.25%, 9/15/10	1,447,500
EURO 3,750,000	Kabel Deutschland GMBH, 10.75%, 7/1/14	5,893,532
3,865,000	(b) Univision Communications, 9.75%, 3/15/15 (144A)	2,821,450
		12,534,482
	Publishing - 3.1%	
2,508,672	(b) American Achievement Group Holding Corp., 14.75	2,209,705
4,835,000	Sheridan Acquisition Corp., 10.25%, 8/15/11	4,448,200
1,400,000	TL Acquisitions, Inc., 10.5%, 1/15/15 (144A)	1,211,000
3,700,000	(d) Visant Holding Corp., 0.0%, 12/1/13	3,589,000
		11,457,905
	Total Media	23,992,387
	Retailing - 2.8%	
	Distributors - 1.2%	
4,735,000	Intcomex, Inc., 11.75%, 1/15/11	4,237,825
	General Merchandise Store - 0.2%	
1,000,000	(m) Central Garden & Pet Co., 9.125%, 2/1/13	870,000
	Home Improvement Retail - 0.2%	
820,000	KAR Holdings, Inc., 10.0%, 5/1/15 (144A)	688,800
	Specialty Stores - 1.2%	
4,615,000	(m) Sally Holdings LLC, 10.5%, 11/15/16	4,395,787
	Total Retailing	10,192,412
	Food & Staples Retailing - 0.8%	

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	Drug Retail - 0.8%	
3,350,000	(m) Duane Reade, Inc., 9.75%, 8/1/11	2,998,250
	Total Food & Staples Retailing	2,998,250
	Food, Beverage & Tobacco - 3.0%	
	Brewers - 1.9%	
5,885,000	Cia Brasileira de Bebida, 10.5%, 12/15/11	6,723,612
	Agricultural Products - 0.1%	
500,000	Marfrig Overseas, Ltd., 9.625%, 11/16/16 (144A)	480,000
	Packaged Foods & Meats - 0.8%	
775,000	Bertin, Ltd., 10.25%, 10/5/16 (144A)	798,250
2,410,000	Minerva Overseas, Ltd., 9.5%, 2/1/17 (144A)	2,241,300
		3,039,550
	Tobacco - 0.2%	
150,000	Alliance One International, Inc., 8.5%, 5/15/12	141,000
605,000	Alliance One International, Inc., 11.0%, 5/15/	623,150
		764,150
	Total Food, Beverage & Tobacco	11,007,312
	Health Care Equipment & Services - 8.2%	
	Health Care Equipment & Services - 2.1%	
2,875,000	(m) Accellent, Inc., 10.5%, 12/1/13	2,630,625
3,195,000	(m) Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	2,364,300
2,570,000	(b) Biomet, Inc., 10.375%, 10/15/17	2,724,200
		7,719,125
	Health Care Supplies - 1.1%	
3,800,000	Hanger Orthopedic Group, Inc., 10.25%, 6/1/14	3,904,500
	Health Care Services - 1.6%	
2,160,000	AMR HoldCo/Emcare HoldCo, 10.0%, 2/15/15	2,289,600
4,055,000	Rural/Metro Corp., 9.875%, 3/15/15	3,710,325
		5,999,925
	Health Care Facilities - 1.5%	
2,555,000	(b) HCA Inc., 9.625%, 11/15/16	2,631,650
3,725,000	Surgical Care Affiliates, Inc., 10.0%, 7/15/17	2,905,500
		5,537,150
	Managed Health Care - 1.9%	
2,900,000	(a) Medical Services Co., 10.213%, 10/15/11	2,675,250
4,400,000	Multiplan, Inc., 10.375%, 4/15/16 (144A)	4,312,000
		6,987,250
	Total Health Care Equipment & Services	30,147,950
	Pharmaceuticals & Biotechnology & Life Sciences - 2.6%	
	Pharmaceuticals - 2.6%	
2,000,000	Phibro Animal Health Corp., 10.0%, 8/1/13 (144A)	2,020,000
3,000,000	Phibro Animal Health Corp., 13.0%, 8/1/14 (144A)	3,000,000
4,317,000	Warner Chilcott Corp., 8.75%, 2/1/15	4,381,755
	Total Pharmaceuticals & Biotechnology & Life Sc	9,401,755
	Banks - 0.4%	
	Diversified Banks - 0.4%	
1,750,000	(a) ALB Finance BV, 9.375%	1,101,118
400,000	(a) Banco Macro SA, 10.75%, 6/7/12	264,500
	Total Banks	1,365,618
	Diversified Financials - 4.6%	
	Specialized Finance - 2.2%	
7,950,000	GATX Financial Corp., 8.875%, 6/1/09	8,178,666
	Consumer Finance - 2.4%	

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3,770,000	ACE Cash Express, Inc., 10.25%, 10/1/14 (144A)	2,827,500
495,000	(m)AmeriCredit Corp., 8.5%, 7/1/15	396,000
3,000,000	(a)Ford Motor Credit Co., 7.163%, 4/15/12	2,811,726
3,000,000	Ford Motor Credit Co., 7.875%, 6/15/10	2,589,471
		8,624,697
	Total Diversified Financials	16,803,363
	Insurance - 6.3%	
	Insurance Brokers - 1.9%	
2,640,000	Alliant Holdings I, Inc., 11.0%, 5/1/15 (144A)	2,296,800
3,765,000	HUB International Holdings, Inc., 10.25%, 6/15/3	3,087,300
900,000	(a)U.S.I. Holdings Corp., 6.551%, 11/15/14 (144A)	751,500
885,000	U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)	761,100
		6,896,700
	Life & Health Insurance - 1.5%	
5,725,000	Presidential Life Corp., 7.875%, 2/15/09	5,710,687
	Multi-Line Insurance - 2.2%	
5,300,000	Allmerica Financial Corp., 7.625%, 10/15/25	4,590,197
2,600,000	(a)Liberty Mutual Group, Inc., 10.75%, 6/15/58 (144A)	2,489,500
2,410,000	(a)MBIA Insurance Co., 14.0% 1/15/33 (144A)	1,000,150
		8,079,847
	Property & Casualty Insurance - 0.1%	
375,000	(a)Blue Fin, Ltd., 7.128% 4/10/12 (144A)	369,038
	Reinsurance - 0.6%	
EURO 275,000	(a)Atlas Reinsurance Plc, 14.981%, 1/10/11 (144A)	443,024
750,000	(a)Foundation Re, Ltd., 6.795%, 11/24/08 (144A)	731,925
250,000	(a)Residential Reinsurance 2006, 12.682%, 6/5/09	248,675
350,000	(a)Residential Reinsurance 2008, 14.149%, 6/6/11	348,985
500,000	(a)Successor II, Ltd., 27.672%, 4/6/10 (144A)	488,550
		2,261,159
	Total Insurance	23,317,431
	Real Estate - 0.0%	
	Real Estate Management & Development - 0.0%	
225,000	(a)Alto Palermo SA, 11.0%, 6/11/12 (144A)	179,719
	Total Real Estate	179,719
	Software & Services - 5.1%	
	IT Consulting & Other Services - 1.3%	
4,450	(e)MSX International UK/MXS International Business Services	
	FR/MXS International GmBH, 12.5%, 4/1/12	13,426,500
1,705,000	Vangent, Inc., 9.625%, 2/15/15	1,483,350
		4,909,850
	Data Processing & Outsourced Services - 3.0%	
7,015,000	First Data Corp., 9.875%, 9/24/15 (144A)	6,103,050
640,000	iPayment, Inc., 9.75%, 5/15/14	540,800
5,745,000	Pegasus Solutions, Inc., 10.5%, 4/15/15 (144A)	4,308,750
		10,952,600
	Application Software - 0.8%	
2,790,000	Activant Solutions, Inc., 9.5%, 5/1/16	2,204,100
810,000	Open Solutions, Inc., 9.75%, 2/1/15 (144A)	660,150
		2,864,250
	Total Software & Services	18,726,700
	Technology Hardware & Equipment - 3.2%	
	Office Electronics - 3.2%	
11,830,000	Xerox Capital Trust I, 8.0%, 2/1/27	11,546,802
	Total Technology Hardware & Equipment	11,546,802
	Semiconductors & Semiconductor Equipment - 0.6%	

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	Semiconductors - 0.6%	
2,000,000	(a) Freescale Semiconductor, Inc., 9.125%, 12/15/14	1,555,000
750,000	(m) Freescale Semiconductor, Inc., 10.125%, 12/15/15	718,875
	Total Semiconductors & Semiconductor Equipment 2,126,875	
	Telecommunication Services - 11.6%	
	Integrated Telecommunication Services - 5.0%	
4,165,000	Broadview Networks Holdings, Inc., 11.375%, 9/13/13	738,087
4,070,000	(m) GC Impsat Holdings I Plc, 9.875%, 2/15/17 (144A)	3,718,962
2,810,000	GCI, Inc., 7.25%, 2/15/14	2,416,600
1,000,000	Intelsat Subsidiary Holdings, 8.5%, 1/15/13 (14975)	975,000
3,565,000	PAETEC Holding Corp., 9.5%, 7/15/15	3,288,712
3,200,000	Stratos Global Corp., 9.875%, 2/15/13	3,384,000
691,000	Tele Norte Leste Participacoes SA, 8.0%, 12/18/14	714,321
	18,235,682	
	Wireless Telecommunication Services - 6.6%	
1,625,000	(m) Cell C Property, Ltd., 11.0%, 7/1/15 (144A)	1,665,625
6,400,000	Cricket Communications, Inc., 9.375%, 11/1/14	6,160,000
1,500,000	Digicel, Ltd., 9.25%, 9/1/12 (144A)	1,543,125
2,500,000	(a) Hellas Telecommunications Luxembourg II, 8.463%	1,900,000
5,000,000	Hughes Network Systems LLC, 9.5%, 4/15/14	5,056,250
2,200,000	(d) Inmarsat Finance II Plc, 0.0%, 11/15/12	2,222,000
3,000,000	(a) Rural Cellular Corp., 8.623%, 11/1/12	3,022,500
3,020,000	True Move Co, Ltd., 10.75%, 12/16/13 (144A)	2,631,175
	24,200,675	
	Total Telecommunication Services 42,436,357	
	Utilities - 3.4%	
	Electric Utilities - 2.1%	
2,000,000	Aes Chivor SA ESP, 9.75%, 12/30/14 (144A)	2,276,200
3,800,000	Intergen NV, 9.0%, 6/30/17 (144A)	3,933,000
1,500,000	Mirant JPSCo. Finance, Ltd., 11.0%, 7/6/16 (144A)	1,582,500
	7,791,700	
	Multi - Utilities - 0.1%	
485,000	PNM Resources, Inc., 9.25%, 5/15/15	500,763
	Independent Power Producers & Energy Traders - 1.2%	
4,345,000	Texas Computer Electric Hold LLC, 10.25%, 11/1/14	4,258,100
	Total Utilities 12,550,563	
	TOTAL CORPORATE BONDS & NOTES	
	(Cost \$445,150,899) 421,256,100	
	CONVERTIBLE BONDS & NOTES - 0.3% of Net Assets	
	Transportation - 0.3%	
	Marine - 0.3%	
1,415,000	Horizon Lines, Inc., 4.25%, 8/15/12	1,098,394
	TOTAL CONVERTIBLE BONDS & NOTES 1,098,394	
	(Cost \$1,083,449)	
	MUNICIPAL BONDS - 5.9% of Net Assets	
	Indiana - 1.6%	
1,650,000	East Chicago Industrial Pollution Control Revenue	1,688,726
4,250,000	Indiana Development Finance Authority Revenue	4,301,000
	5,989,726	
	New Jersey - 1.0%	
4,525,000	New Jersey Economic Development Authority Revenue	3,659,051
	New York - 0.8%	
3,475,000	New York City Industrial Development Agency, Br	2,988,639
	North Carolina - 1.4%	
4,800,000	Charlotte, Special Facilities Revenue, Charlott	3,327,024

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2,000,000	Charlotte, Special Facilities Revenue, Charlott	1,771,500
		5,098,524
	Texas - 1.1%	
3,200,000	(f) San Antonio, Texas, Electric & Gas, RIB,	10.343% 4,035,424
	TOTAL MUNICIPAL BONDS	
	(Cost \$19,494,943)	21,771,364
	MUNICIPAL COLLATERALIZED DEBT OBLIGATION - 0.9%	
3,300,000	(g) Non-Profit Preferred Funding Trust I, 12.5%, 9/3,	152,985
	TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION	
	(Cost \$3,293,400)	3,152,985
	SOVEREIGN DEBT OBLIGATIONS - 2.3%	
	Brazil - 1.1%	
ITL 4,800,000,0	(d) Banco Nacional de Desenvolvimento Bndes, 8.0%,	44,019,045
	Ecuador - 0.5%	
2,015,000	(d) Federal Republic of Ecuador, 10.0%, 8/15/30	(141,964,625
	Russia - 0.7%	
2,285,200	(d) Russia Government International Bond, 7.5%, 3/32,	563,743
	TOTAL SOVEREIGN DEBT OBLIGATIONS	
	(Cost \$5,361,520)	8,547,413
	FLOATING RATE LOAN INTERESTS - 5.3% (h)	
	Energy - 0.2%	
	Oil & Gas Exploration & Production - 0.2%	
600,000	Venoco, Inc., Second Lien Term Loan, 6.688%, 9/585,	000
	Total Energy	585,000
	Materials - 0.5%	
	Steel - 0.5%	
2,277,000	Niagara Corp., Term Loan, 7.386%, 6/29/14	2,026,530
	Total Materials	2,026,530
	Capital Goods - 1.6%	
	Aerospace & Defense - 0.9%	
3,600,000	Aeroflex, Inc., Senior Unsecured Bridge Loan,	63,330,000
	Building Products - 0.6%	
229,418	Custom Building Products, Inc., First Lien Term	200,741
2,250,000	Custom Building Products, Inc., Second Lien Ter	1,822,500
		2,023,241
	Construction & Farm Machinery & Heavy Trucks - 0.1%	
397,920	Rental Service Corp., Second Lien Initial Term	339,476
	Total Capital Goods	5,692,717
	Consumer Durables & Apparel - 0.1%	
	Homebuilding - 0.1%	
2,850,000	(i) LandSource Communities Development LLC, Second	534,375
	Total Consumer Durables & Apparel	534,375
	Consumer Services - 0.5%	
	Casinos & Gaming - 0.5%	
2,500,000	Gateway Casinos & Entertainment, Advance Second	1,725,000
	Total Consumer Services	1,725,000
	Health Care Equipment & Services - 0.4%	
1,492,424	Talecris Biotherapeutics Holdings Corp., First	1,376,761
	Total Health Care Equipment & Services	1,376,761

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	Diversified Financials - 0.9%	
	Logistics - 0.9%	
EURO 2,274,035	(b) Louis Topco, Ltd., Term Loan, 12.134%, 6/1/17	3,421,621
	Total Diversified Financials	3,421,621
	Insurance - 0.5%	
	Insurance Brokers - 0.4%	
2,250,000	AmWins Group, Inc., Second Lien Initial Term Loan	1,473,750
	Multi-Line Insurance - 0.1%	
249,372	AmWins Group, Inc., Initial Term Loan 4.98%	209,472
	Total Insurance	1,683,222
	Telecommunication Services - 0.6%	
	Integrated Telecommunication Services - 0.6%	
2,500,000	Intelsat, Ltd., Senior Notes Backstop Loan, 9.22%	2,337,500
	Total Telecommunication Services	2,337,500
	TOTAL FLOATING RATE LOAN INTERESTS	
	(Cost \$23,541,511)	19,382,726
Shares	COMMON STOCKS - 0.3%	
	Transportation - 0.1%	
	Airlines - 0.1%	
73,808	(j) Northwest Airlines Corp.	491,561
	Total Transportation	
	Pharmaceuticals & Biotechnology & Life Sciences - 0.2%	
	Pharmaceuticals - 0.2%	
17,818	Teva Pharmaceutical Industries, Ltd. (A.D.R.)	816,064
	Total Pharmaceuticals & Biotechnology & Life Sciences	
	TOTAL COMMON STOCKS	
	(Cost \$2,886,220)	1,307,625
	WARRANTS - 0.6% of Net Assets	
	Energy - 0.5%	
	Oil & Gas Drilling - 0.5%	
2,500,000	(j) Norse Energy Corp. ASA - CW11, Expires 7/14/11	1,791,517
	Oil & Gas Exploration & Production - 0.0%	
150,592	(j) Biofuel Energy ASA, Expires 6/7/12	0
	Total Energy	1,791,517
	Materials - 0.1%	
	Forest Products - 0.1%	
1,645	(j) Mandra Forestry Holdings, Ltd. - CW13, Expires	213,850
	Total Materials	213,850
	TOTAL WARRANTS	
	(Cost \$523,408)	2,005,367
Principal Amount USD (\$)		
	TEMPORARY CASH INVESTMENTS - 19.1%	
	Repurchase Agreement - 5.4%	
3,990,000	Bank of America Corp., 2.44%, dated 6/30/08, re3,990,000 plus accrued interest on 7/1/08 collateralized by \$10,777,524 Federal National Mortgage Association, 5.5%, 6/1/33	
3,990,000	Barclays Plc, 2.4%, dated 6/30/08, repurchase p3,990,000 plus accrued interest on 7/1/08 collateralized by the	

following:

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	\$2,425,677 Federal Home Loan Mortgage Corp., 4.171% -	
6.27%, 12/1/34 - 10/1/37		
	\$2,492,527 Federal National Mortgage Association (ARM),	
	5.024% - 6.082%, 8/1/36 - 2/1/48	
3,995,000	Deutsche Bank AG, 2.7%, dated 6/30/08, repurcha	3,995,000
	plus accrued interest on 7/1/08 collateralized by the	
following:		
	\$944,287 Federal Home Loan Mortgage Corp., 4.703% -	
4.704%, 5/1/35 - 12/1/35		
	\$1,245,301 Federal National Mortgage Association (ARM),	
	4.708% - 5.887%, 12/1/13 - 8/1/37	
5/1/38	\$3,881,778 Freddie Mac Giant, 4.5% - 7.0%, 10/1/34 -	
	\$7,864,933 U.S. Treasury Strip, 0.0%, 8/15/22	
3,990,000	JPMorgan Chase & Co., 2.65%, dated 6/30/08, rep 3,990,000	
	plus accrued interest on 7/1/08 collateralized by \$4,436,742	
Federal		
	National Mortgage Association, 4.5% - 6.5%, 3/1/23 - 5/1/38	
3,990,000	Merrill Lynch & Co., 2.5%, dated 6/30/08, repurc 3,990,000	
	plus accrued interest on 7/1/08 collateralized by \$4,964,724	
Federal Home		
	Loan Mortgage Corp., 5.065% - 5.985%, 9/1/36 - 4/1/38	
		19,955,000
	Security Lending Collateral - 13.7%	
	Certificates of Deposit:	
1,027,980	American Express, 2.72%, 8/8/08	1,027,980
277,074	Banco Santander NY, 2.8%, 10/7/08	277,074
770,220	Banco Santander NY, 3.09%, 12/22/08	770,220
1,154,181	Bank Bovespa NY, 2.705%, 8/8/08	1,154,181
769,446	Bank of America, 2.88%, 8/11/08	769,446
769,187	Bank of Nova Scotia, 3.18%, 5/5/09	769,187
461,668	Bank of Scotland NY, 2.7%, 8/1/08	461,668
384,723	Bank of Scotland NY, 2.72%, 8/15/08	384,723
384,723	Bank of Scotland NY, 2.73%, 7/11/08	384,723
276,691	Bank of Scotland NY, 2.89%, 11/4/08	276,691
461,992	Bank of Scotland NY, 2.96%, 11/3/08	461,992
384,469	Bank of Scotland NY, 3.03%, 9/26/08	384,469
1,385,002	Barclay's Bank, 3.18%, 5/27/09	1,385,002
769,446	BNP Paribas NY, 2.88%, 7/23/08	769,446
646,335	Calyon NY, 2.64%, 9/29/08	646,335
244,044	Calyon NY, 2.69%, 1/16/09	244,044
461,675	Calyon NY, 2.85%, 8/25/08	461,675
769,446	Citibank, 2.85%, 7/29/08	769,446
638,640	Commonwealth Bank of Australia NY, 2.63%, 7/11/08	638,640
646,335	Deutsche Bank Financial, 2.72%, 7/30/08	646,335
307,807	Deutsche Bank Financial, 2.72%, 8/4/08	307,807
153,880	Dexia Bank NY, 2.65%, 8/12/08	153,880
630,949	Dexia Bank NY, 2.69%, 8/7/08	630,949
570,144	Dexia Bank NY, 3.37%, 9/29/08	570,144
1,385,003	DNB NOR Bank ASA NY, 2.9%, 6/8/09	1,385,003
66,096	Fortis, 3.11%, 9/30/08	66,096
1,409,626	Intesa SanPaolo S.p.A., 2.72%, 5/22/09	1,409,626
670,957	Lloyds Bank, 2.61%, 7/11/08	670,957
384,723	Lloyds Bank, 2.61%, 8/18/08	384,723
523,224	Natixis, 2.83%, 8/4/08	523,224
88,907	NORDEA NY, 2.72%, 4/9/09	88,907
73,741	NORDEA NY, 2.73%, 12/1/08	73,741
769,446	NORDEA NY, 2.81%, 8/29/08	769,446
123,085	Rabobank Nederland NY, 2.37%, 8/29/08	123,085
384,723	Royal Bank of Canada NY, 2.57%, 7/15/08	384,723
769,460	Royal Bank of Canada NY, 2.6%, 9/5/08	769,460
297,008	Skandinavian Enskilda Bank NY, 2.7%, 7/17/08	297,008

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153,513	Skandinavian Enskilda Bank NY, 3.06%, 2/13/09	153,513
89,188	Skandinavian Enskilda Bank NY, 3.18%, 9/22/08	89,188
638,640	Svenska Bank NY, 2.55%, 7/11/08	638,640
307,780	Svenska Bank NY, 2.7%, 7/17/08	307,780
461,668	Toronto Dominion Bank NY, 2.75%, 11/5/08	461,668
969,502	Toronto Dominion Bank NY, 2.77%, 9/5/08	969,502
153,554	Wachovia Bank, 3.62%, 10/28/08	153,554
		24,065,901
	Commercial Paper:	
146,393	Bank Bovespa NY, 2.79%, 3/12/09	146,393
306,874	Bank of America, 2.6%, 8/11/08	306,874
236,493	Bank of America, 2.7%, 8/26/08	236,493
230,662	CBA, 2.7%, 7/11/08	230,662
613,415	CBA, 2.88%, 8/18/08	613,415
153,803	Deutsche Bank Financial, 2.72%, 7/9/08	153,803
692,344	General Electric Capital Corp., 2.77%, 1/5/09	692,344
769,162	General Electric Capital Corp., 2.82%, 3/16/09	769,162
764,464	HSBC, 2.88%, 9/29/08	764,464
153,644	HSBC, 2.89%, 7/21/08	153,644
284,546	IBM, 3.18%, 2/13/09	284,546
769,446	IBM, 3.18%, 6/26/09	769,446
613,649	ING Funding, 2.7%, 8/13/08	613,649
1,385,003	Met Life Global Funding, 3.16%, 6/12/09	1,385,003
230,669	Natixis, 2.87%, 7/10/08	230,669
230,446	Natixis, 2.87%, 7/21/08	230,446
189,629	PARFIN, 3.18%, 8/1/08	189,629
304,944	Royal Bank of Scotland, 2.66%, 10/21/08	304,944
383,821	Societe Generale, 2.93%, 7/30/08	383,821
153,877	Societe Generale, 2.98%, 7/2/08	153,877
306,908	Societe Generale, 3.18%, 8/5/08	306,908
613,227	Societe Generale, 3.18%, 8/22/08	613,227
306,872	SVSS NY, 3.18%, 8/11/08	306,872
1,308,059	WestPac, 3.18%, 6/1/09	1,308,059
		11,148,350
Shares		
	Mutual Funds:	
923,336	BlackRock Liquidity Money Market Fund, 3.18%	923,336
1,200,798	Dreyfus Preferred Money Market Fund, 3.18%	1,200,798
		2,124,134
Principal Amount USD (\$)		
	Tri-party Repurchase Agreements:	
3,272,870	Deutsche Bank, 2.5% 7/1/08	3,272,870
9,233,355	Lehman Brothers, 2.65% 7/1/08	9,233,355
		12,506,225
	Other:	
382,655	ABS CFAT 2008-A A1, 3.005%, 4/27/09	382,655
	Total Security Lending Collateral	50,227,265
	TOTAL TEMPORARY CASH INVESTMENTS (Cost \$70,182,265)	70,182,265
	TOTAL INVESTMENTS IN SECURITIES - 152.8% (Cost \$584,076,180) (k) (1)	560,790,345
	OTHER ASSETS AND LIABILITIES - (11.6)%	(42,773,873)
	PREFERRED SHARES AT REDEMPTION VALUE, INCLUDING DIVIDENDS PAYABLE - (41.2)%	(151,114,435)
	NET ASSETS APPLICABLE TO COMMON SHAREOWNERS -	1366,902,037
NR	Security not rated by S&P or Moody's.	

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(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 June 30, 2008, the value of these securities amounted to \$156,091,435 or 42.5% of total net assets applicable to common shareowners.

(a) Floating rate note. The rate shown is the coupon rate at June 30, 2008.

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

(c) Security is a perpetual bond and has no definite maturity date.

(d) Debt obligation initially issued at one coupon which converts to a higher coupon at a specific date. The rate shown is the rate at June 30, 2008.

(e) Security is priced as a unit.

(f) The interest rate is subject to change periodically and inversely based upon prevailing market rates. The rate shown is the rate at June 30, 2008.

(g) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is \$3,293,400. The aggregate value \$3,152,985 represents 0.9% of the net assets.

(h) 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 June 30, 2008.

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

(ij) Non-income producing.

(k) At June 30, 2008, the net unrealized loss on investments based on cost for federal income tax purposes of \$584,663,625 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost	21,711,370
Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value	(45,584,650)

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Net unrealized loss (23,873,280)

\$23,285,835 For financial reporting purposes net unrealized loss was
and cost of investments aggregated \$584,076,180.

(1) Distribution of investments by country of issue, as a percentage of total holdings,

is as follows:

United States	76.8%
Canada	4.0
Norway	3.8
Brazil	2.7
United Kingdom	2.6
Netherlands	1.4
Cayman Islands	1.3
Germany	1.0
Mexico	1.0
Virgin Islands	0.8
Australia	0.6
Bermuda	0.5
Argentina	0.5
Thailand	0.5
Russia	0.4
Luxembourg	0.4
Colombia	0.4
Ecuador	0.3
South Africa	0.3
Jamaica	0.3
Singapore	0.2
Israel	0.1
Ireland	0.1
	100.0

(m) At June 30, 2008, the following securities were out on loan:

Principal Amount	Description	Market Value(\$)
USD(\$)		
1,450,000	Accellent, Inc., 10.5%, 12/1/13	1,139,014
4,820,000	Accuride Corp., 8.5%, 2/1/15	3,700,222
2,500,000	Aleris International, Inc., 10.0%, 12/15/16	1,829,168
792,554	American Airlines, Inc., 7.379%, 11/23/17	245,930
456,000	AmeriCredit Corp., 8.5%, 7/1/15*	384,072
2,500,000	Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	1,897,900
1,592,000	Aventine Renewable Energy Holdings, Inc., 10.0%	1,018,437
3,168,000	CCH I Holdings LLC, 11.0%, 10/1/15	2,430,471
500,000	CCH II Holdings LLC, 10.25%, 9/15/10	499,948
1,600,000	Cell C Property, Ltd., 11.0%, 7/1/15 (144A)	1,735,510
990,000	Central Garden & Pet Co., 9.125%, 2/1/13	898,689
1,000,000	Cooper-Standard Automotive, Inc., 8.375%, 12/15/13	733,490
3,316,000	Duane Reade, Inc., 9.75%, 8/1/11	3,085,054
492,500	Freescale Semiconductor, Inc., 10.125%, 12/15/13	777,609
1,005,000	GC Impsat Holdings I Plc, 9.875%, 2/15/17 (144A)	954,708
1,803,000	Georgia Gulf Corp., 9.5%, 10/15/14	1,387,935
2,831,000	Georgia Gulf Corp., 10.75%, 10/15/16	1,767,541
5,000,000	Graphic Packaging International, Inc., 9.5%, 8/4/12	8,125,125
2,000,000	Industrias Unidas SA de CV, 11.5%, 11/15/16 (141)	336,834
1,485,000	Ineos Group Holdings Plc, 8.5%, 2/15/16 (144A)	1,042,284
1,485,000	Panolam Industries International, 10.75%, 10/1/11	211,286
4,568,000	Sally Holdings LLC, 10.5%, 11/15/16	4,422,395
2,420,000	Trump Entertainment Resorts, Inc., 8.5%, 6/1/15	1,510,920
3,825,000	Univision Communications, 9.75%, 3/15/15 (144A)	2,910,588

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4,230,000	VeraSun Energy Corp., 9.875%, 12/15/12	3,708,082
2,000,000	VeraSun Energy Corp., 9.375%, 6/1/17	1,035,104
2,638,000	Yankee Acquisition Corp., 8.5%, 2/15/15	2,141,726
Shares		
73,000	Northwest Airlines Corp.	460,630
		48,793,672

*Awaiting pending sales, portion not part of portfolio at period end.

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

EURO	Euro
ITL	Italian Lira
NOK	Norwegian Krone

Glossary of Terms:	
(A.D.R.)	American Depositary Receipt
RIB	Residual Interest Bonds

FAS 157 Footnote Disclosures

Various inputs are used in determining the value of the Fund'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 Fund's own assumptions in determining fair value of investments)

The following is a summary of the inputs used as of June 30, 2008, in valuing the Fund's assets:

Valuation Inputs	Investments in Securities
Level 1 - Quoted Prices	3,099,142
Level 2 - Other Significant Observable Inputs	557,691,203
Level 3 - Significant Unobservable Inputs	-
Total	560,790,345

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)

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under the Exchange Act (17 CFR240.13a-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 CFR270.30a-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 August 29, 2008

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 August 29, 2008

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

Date August 29, 2008

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