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PIONEER HIGH INCOME TRUST

Form N-Q

August 28, 2007

OMB APPROVAL

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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, 2007

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.

Pioneer High Income Trust SCHEDULE OF INVESTMENTS 6/30/07 (unaudited)

Principal Amount USD (\$)		Value
	COLLATERIZED MORTGAGE OBLIGATIONS - 0.3% of Net Assets	
	Diversified Financials - 0.3%	
1,245,000	DB Master Finance LLC, 8.285%, 6/20/31 (144A)	\$ 1,257,421
	TOTAL COLLATERIZED MORTGAGE OBLIGATIONS	
	(Cost \$1,268,107)	\$ 1,257,421
	CORPORATE BONDS & NOTES - 115.9% of Net Assets	
	Energy - 13.9%	
	Oil & Gas Drilling - 2.8%	
4,400,000	DDI Holding AS, 9.3%, 1/19/12 (144A)	\$ 4,631,000
2,500,000	Norse Energy Corp. ASA, 6.5%, 7/14/11 (144A)	2,018,750
3,000,000	Norse Energy Corp. ASA, 10.0%, 7/13/10	507,928
11,500,000	Petrojack AS, 11.0%, 4/19/10	1,985,998
3,500,000	Skeie Drilling & Production ASA, 11.25%, 3/8/13	3,535,000
		\$12,678,676
	Oil & Gas Equipment & Services - 2.3%	
600,000	(a) DP Producer AS, 11.36%, 12/5/11 (144A)	\$ 612,000
1,100,000	Nexus 1 Pte, Ltd., 10.5%, 3/7/12 (144A)	1,111,000
2,000,000	Sevan Marine ASA, 9.25%, 12/20/11 (144A)	2,080,000
4,540,000	White Pine Hydro Portfolio LLC, 7.26%, 7/20/15	4,540,000
		\$ 8,343,000
	Integrated Oil & Gas - 0.4%	
1,770,000	Tristan Oil, Ltd., 10.5%, 1/1/12 (144A)	\$ 1,840,800
	Oil & Gas Exploration & Production - 5.6%	
6,584,000	Baytex Energy, Ltd., 9.625%, 7/15/10	\$ 6,814,440
3,200,000	Biofuel Energy ASA, 10.0%, 6/7/12	3,200,000
1,250,000	Hilcorp Energy I, LP, 9.0%, 6/1/16 (144A)	1,293,750
4,500,000	Methanex Corp., 8.75%, 8/15/12	4,950,000
500,000	(a) PetroProd, Ltd., 11.355%, 1/12/12	513,750
5,300,000	PetroQuest Energy, Inc., 10.375%, 5/15/12	5,498,750
3,135,000	Stone Energy Corp., 6.75%, 12/15/14	2,884,200
		\$25,154,890
	Oil & Gas Refining & Marketing - 2.5%	
4,325,000	Aventine Renewable Energy Holdings, Inc., 10.0%, 4/\$	4,238,500
2,425,000	VeraSun Energy Corp., 9.375%, 6/1/17 (144A)	2,255,250
4,280,000	VeraSun Energy Corp., 9.875%, 12/15/12	4,494,000
		\$10,987,750
	Oil & Gas Storage & Transportation - 0.3%	
2,130,000	SemGroup L.P., 8.75%, 11/15/15 (144A)	\$ 2,140,650
820,000	Targa Resources, Inc., 8.5%, 11/1/13 (144A)	832,300
		\$ 2,972,950
	Total Energy	\$61,978,066
	Materials - 17.1%	
	Commodity Chemicals - 3.0%	
4,635,000	ARCO Chemical Co., 9.8%, 2/1/20	\$ 5,028,975
2,210,000	Georgia Gulf Corp., 9.5%, 10/15/14	2,198,950
2,650,000	(1) Georgia Gulf Corp., 10.75%, 10/15/16	2,636,750
3,150,000	Invista, 9.25%, 5/1/12 (144A)	3,331,125
		\$13,195,800

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Diversified Chemicals - 2.1%			
3,200,000	Basell Finance Co., 8.1%, 3/15/27 (144A)	\$	2,912,000
3,000,000	Hexion US Finance Corp./Hexion Nova Scotia Finance U		3,105,000
2,000,000	Ineos Group Holdings Plc., 8.5%, 2/15/16 (144A)		1,955,000
1,190,000	Nell AF S.a.r.l., 8.375%, 8/15/15 (144A)		1,611,170
		\$	9,583,170
Specialty Chemicals - 1.0%			
785,000	MacDermid, Inc., 9.5%, 4/15/07 (144A)	\$	788,925
3,300,000	Tronox Worldwide LLC, 9.5%, 12/1/12		3,440,250
		\$	4,229,175
Construction Materials - 2.5%			
4,500,000	AGY Holding Corp., 11.0%, 11/15/14 (144A)	\$	4,730,625
825,000	Blaze Recycling & Metals LLC, 10.875%, 7/15/12 (144A)		841,500
1,500,000	Panolam Industries International, Inc., 10.75%, 10/1		1,567,500
4,185,000	U.S. Concrete, Inc., 8.375%, 4/1/14		4,174,538
		\$	11,314,163
Paper Packaging - 2.9%			
5,450,000	Exopack Holding Corp., 11.25%, 2/1/14	\$	5,749,750
5,540,000	Graphic Packaging International, Inc., 9.5%, 8/15/13		5,754,675
46,000	MDP Acquisitions Plc, 10.125%, 10/1/12		65,853
1,500,000	U.S. Corrugated, Inc., 10.0%, 6/1/13		1,488,750
		\$	13,059,028
Aluminum - 1.5%			
2,035,000	Aleris International, Inc., 10.0%, 12/15/16 (144A)	\$	2,019,737
1,200,000	Asia Aluminum Holdings, Ltd., 8.0%, 12/23/11 (144A)		1,182,000
3,180,000	Indalex Holding Corp., 11.5%, 2/1/14		3,307,200
		\$	6,508,937
Diversified Metals & Mining - 3.0%			
3,300,000	American Rock Salt Co. LLC, 9.5%, 3/15/14	\$	3,337,125
3,000,000	FMG Finance Pty., Ltd., 10.625%, 9/1/16 (144A)		3,570,000
1,505,000	(a) (Noranda Aluminium Acquisition Corp., 9.36%, 5/15/15		1,452,325
3,050,000	PNA Group, Inc., 10.75%, 9/1/16 (144A)		3,324,500
1,870,000	(a) PNA Intermediate Holding Corp., 12.36%, 2/15/13 (144		1,888,700
		\$	13,572,650
Steel - 0.7%			
2,900,000	CSN Islands VIII Corp., 9.75%, 12/16/13 (144A)	\$	3,255,250
Forest Products - 0.4%			
1,645,000	Mandra Forestry Holdings, Ltd., 12.0%, 5/15/13 (144	\$	1,661,450
	Total Materials		\$76,379,623
Capital Goods - 8.8%			
Building Products - 2.0%			
6,135,000	(a) Builders FirstSource, Inc., 9.61%, 2/15/12	\$	6,211,687
2,500,000	Industrias Unidas SA de CV, 11.5%, 11/15/16 (144A)		2,631,250
		\$	8,842,937
Electrical Components & Equipment - 0.7%			
660,000	Baldor Electric Co., 8.625%, 2/15/17	\$	697,950
2,270,000	(c) Caiua Servicios Electricidad SA, 11.125% (144A)		2,374,420
		\$	3,072,370
Heavy Electrical Equipment - 2.0%			
4,790,000	Altra Industrial Motion, 9.0%, 12/1/11	\$	4,957,650
3,975,000	Hawk Corp., 8.75%, 11/1/14		4,094,250
		\$	9,051,900
Construction & Farm Machinery & Heavy Truck - 3.8%			
2,900,000	Accuride Corp., 8.5%, 2/1/15	\$	2,863,750
5,250,000	Commercial Vehicle Group, Inc., 8.0%, 7/1/13		5,236,875
1,520,000	Esco Corp., 8.625%, 12/15/13 (144A)		1,596,000
1,750,000	Greenbrier Companies, Inc., 8.375%, 5/15/15		1,763,125
1,000,000	(d) Stanadyne Corp., 0.0%, 2/15/15		830,000
4,690,000	Stanadyne Corp., 10.0%, 8/15/14		4,959,675

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			\$17,249,425
		Industrial Machinery - 0.3%	
1,217,000		Manitowac Co., Inc., 10.5%, 8/1/12	\$ 1,283,935
		Total Capital Goods	\$39,500,567
		Commercial Services & Supplies - 7.0%	
		Diversified Commercial & Professional Services - 3.5%	
3,500,000		Allied Security Escrow, 11.375%, 7/15/11	\$ 3,517,500
1,050,000		Mobile Services Group, Inc., 9.75%, 8/1/14 (144A)	1,118,250
9,000,000		NCO Group, Inc., 11.875%, 11/15/14 (144A)	9,292,500
1,565,000		Park-Ohio Industries, Inc., 8.375%, 11/15/14	1,506,312
			\$15,434,562
		Environmental & Facilities Services - 3.5%	
4,088,000		Clean Harbors, Inc., 11.25%, 7/15/12	\$ 4,514,333
5,020,000		Hydrochem Industrial Services, Inc., 9.25%, 2/15/13	5,170,600
5,800,000		Waste Services, Inc., 9.5%, 4/15/14	6,097,250
			\$15,782,183
		Total Commercial Services & Supplies	\$31,216,745
		Transportation - 5.0%	
		Air Freight & Logistics - 0.5%	
1,545,000		CEVA Group Plc, 10.0%, 12/1/16 (144A)	\$ 2,044,865
		Airlines - 0.6%	
976,135		American Airlines, Inc., 7.379%, 11/23/17	\$ 912,686
817,814		Continental Airlines, Inc., Series B, 8.499%, 11/1/1	830,082
1,000,000	(c)	GOL Finance, 8.75% (144A)	1,002,500
			\$ 2,745,268
		Marine - 3.4%	
3,899,000	(d)	H-Lines Finance Holding, 0.0%, 4/1/13	\$ 3,821,020
8,000,000		Seabulk International, Inc., 9.5%, 8/15/13	8,550,000
2,900,000		Trailer Bridge, Inc., 9.25%, 11/15/11	2,965,250
			\$15,336,270
		Railroads - 0.5%	
2,250,000		Kansas City Southern de Mexico, 9.375%, 5/1/12	\$ 2,407,500
		Total Transportation	\$22,533,903
		Automobiles & Components - 1.2%	
		Auto Parts & Equipment - 1.2%	
5,965,000	(1)	Cooper-Standard Automotive, Inc., 8.375%, 12/15/14	\$ 5,562,362
		Total Automobiles & Components	\$ 5,562,362
		Consumer Durables & Apparel - 2.0%	
		Homebuilding - 1.6%	
2,000,000		Meritage Homes Corp., 6.25%, 3/15/15	\$ 1,780,000
1,480,000	(1)	TOUSA, Inc., 10.375%, 7/1/12	1,243,200
1,100,000	(1)	WCI Communities, Inc., 7.875%, 10/1/13	1,012,000
600,000	(1)	William Lyon Homes, Inc., 7.5%, 2/15/14	504,000
3,200,000		William Lyon Homes, Inc., 7.625%, 12/15/12	2,736,000
			\$ 7,275,200
		Housewares & Specialties - 0.4%	
1,650,000	(1)	Yankee Acquisition Corp., 9.75%, 2/15/17	\$ 1,596,375
		Total Consumer Durables & Apparel	\$ 8,871,575
		Consumer Services - 5.5%	
		Casinos & Gaming - 5.0%	
2,000,000		Buffalo Thunder Development Authority, 9.375%, 12/15/14	\$ 2,000,000
1,400,000		Fontainebleau Las Vegas Holdings LLC/Fontainebleau L	1,379,000
1,675,000		Galaxy Entertainment Finance Co., Ltd., 9.875%, 12/15/14	1,800,625
4,500,000		Little Traverse Bay Bands of Odawa Indians, 10.25%, 11/15/14	4,635,000
1,700,000		Pokagon Gaming Authority, 10.375%, 6/15/14 (144A)	1,874,250
1,750,000		Shingle Springs Tribal Gaming Authority, 9.375%, 6/15/14	1,765,312

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2,450,000		Trump Entertainment Resorts, Inc., 8.5%, 6/1/15	2,431,625
6,800,000		Wimar Opco LLC, 9.625%, 12/15/14 (144A)	6,545,000
			\$22,430,812
		Hotels, Resorts & Cruise Lines - 0.5%	
2,000,000	(a)	HRP Myrtle Beach Operations LLC, 10.07%, 4/1/12 (14	\$ 2,000,000
		Total Consumer Services	\$24,430,812
		Media - 4.7%	
		Broadcasting & Cable Television - 2.4%	
3,200,000		CCH I Holdings LLC, 11.0%, 10/1/15	\$ 3,340,000
1,500,000		CCH II Holdings LLC, 10.25%, 9/15/10	1,565,625
3,750,000		Kabel Deutschland GMBH, 10.75%, 7/1/14	5,659,642
			\$10,565,267
		Publishing - 2.3%	
1,710,237	(b)	AAC Group Holding Corp., 14.75%, 10/1/12	\$ 1,876,985
4,835,000		Sheridan Acquisition Corp., 10.25%, 8/15/11	5,076,750
3,700,000	(d)	Visant Holding Corp., 0.0%, 12/1/13	3,394,750
			\$10,348,485
		Total Media	\$20,913,752
		Retailing - 2.1%	
		Distributors - 1.1%	
4,735,000		Intcomex, Inc., 11.75%, 1/15/11	\$ 4,877,050
820,000		KAR Holdings, Inc., 10.0%, 5/1/15 (144A)	799,500
			\$ 5,676,550
		Catalog Retail - 1.0%	
4,615,000		Sally Holdings LLC, 10.5%, 11/15/16 (144A)	\$ 4,638,075
		Total Retailing	\$10,314,625
		Food & Staples Retailing - 0.7%	
		Drug Retail - 0.7%	
3,350,000		Duane Reade, Inc., 9.75%, 8/1/11	\$ 3,274,625
		Total Food & Staples Retailing	\$ 3,274,625
		Food, Beverage & Tobacco - 4.0%	
		Brewers - 1.5%	
5,885,000		Cia Brasileira de Bebida, 10.5%, 12/15/11	\$ 6,914,875
		Agricultural Products - 0.6%	
2,000,000	(c)	Cosan SA Industria e Comercio, 8.25% (144A)	\$ 2,025,000
500,000		Marfrig Overseas, Ltd., 9.625%, 11/16/16 (144A)	522,500
			\$ 2,547,500
		Packaged Foods & Meats - 1.6%	
775,000		Bertin, Ltd., 10.25%, 10/5/16 (144A)	\$ 848,625
2,410,000		Minerva Overseas, Ltd., 9.5%, 2/1/17 (144A)	2,482,300
3,180,000		Nutro Products, Inc., 10.75%, 4/15/14 (144A)	3,695,294
			\$ 7,026,219
		Tobacco - 0.3%	
1,230,000		Alliance One International, Inc., 8.5%, 5/15/12 (14	\$ 1,257,675
		Total Food, Beverage & Tobacco	\$17,746,269
		Health Care Equipment & Services - 6.9%	
		Health Care Equipment & Services - 0.6%	
2,875,000		Accellent, Inc., 10.5%, 12/1/13	\$ 2,853,438
		Health Care Supplies - 0.6%	
2,900,000	(a)	Medical Services Co., 12.856%, 10/15/11	\$ 2,813,000
		Health Care Services - 2.2%	
2,160,000		AMR HoldCo/Emcare HoldCo, 10.0%, 2/15/15	\$ 2,332,800
4,055,000		Rural/Metro Corp., 9.875%, 3/15/15	4,257,750
1,880,000	(b)	Surgical Care Affiliates, Inc., 8.875%, 7/15/15 (144	1,870,600

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1,475,000		Surgical Care Affiliates, Inc., 10.0%, 7/15/17 (144A)	1,471,313 \$ 9,932,463
		Health Care Facilities - 2.4%	
1,200,000		Community Health Systems, Inc., 8.875%, 7/15/15 (144A)	1,216,500
3,800,000		Hanger Orthopedic Group, Inc., 10.25%, 6/1/14	4,085,000
2,555,000	(b)	HCA, Inc., 10.375%, 11/15/16 (144A)	2,746,625
130,000		Psychiatric Solutions, Inc., 7.75%, 7/15/15	128,538
2,000,000		Psychiatric Solutions, Inc., 7.75%, 7/15/15 (144A)	1,977,500
575,000		Sun Healthcare Group, Inc., 9.125%, 4/15/15 (144A)	598,000 \$10,752,163
		Managed Health Care - 1.1%	
4,400,000		Multiplan, Inc., 10.375%, 4/15/16 (144A)	\$ 4,686,000
		Total Health Care Equipment & Services	\$31,037,064
		Pharmaceuticals & Biotechnology & Life Sciences - 2.9%	
		Biotechnology - 0.7%	
3,500,000	(1)	Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	\$ 3,298,750
		Pharmaceuticals - 2.2%	
2,000,000		Phibro Animal Health Corp., 10.0%, 8/1/13 (144A)	\$ 2,090,000
3,000,000		Phibro Animal Health Corp., 13.0%, 8/1/14 (144A)	3,165,000
4,317,000		Warner Chilcott Corp., 8.75%, 2/1/15	4,435,718 \$ 9,690,718
		Total Pharmaceuticals & Biotechnology & Life Sciences	\$12,989,468
		Banks - 0.4%	
		Diversified Banks - 0.4%	
1,750,000	(a)	(ALB Finance BV, 9.375%	\$ 1,677,288
		Total Banks	\$ 1,677,288
		Diversified Financials - 6.5%	
		Other Diversified Financial Services - 0.2%	
605,000		PGS Solutions, Inc., 9.625%, 2/15/15 (144A)	\$ 611,744
		Specialized Finance - 2.6%	
7,950,000		GATX Financial Corp., 8.875%, 6/1/09	\$ 8,401,568
		Consumer Finance - 2.8%	
4,770,000		ACE Cash Express, Inc., 10.25%, 10/1/14 (144A)	\$ 4,877,325
1,300,000		AmeriCredit Corp., 8.5%, 7/1/15 (144A)	1,309,750
3,000,000		Ford Motor Credit Co., 7.875%, 6/15/10	2,999,424
3,000,000	(a)	Ford Motor Credit Co., 9.806%, 4/15/12	3,215,133 \$12,401,632
		Investment Banking & Brokerage - 0.9%	
4,205,000		Algoma Acquisition Corp., 9.875%, 6/15/15 (144A)	\$ 4,183,975
		Total Diversified Financials	\$25,598,919
		Insurance - 3.7%	
		Insurance Brokers - 0.9%	
3,150,000		HUB International Holdings, Inc., 10.25%, 6/15/15 (\$	3,031,875
885,000		U.S.I. Holdings Corp., 9.75%, 5/15/15 (144A)	880,575 \$ 3,912,450
		Life & Health Insurance - 1.3%	
5,725,000		Presidential Life Corp., 7.875%, 2/15/09	\$ 5,725,000
		Multi-Line Insurance - 1.2%	
5,300,000		Allmerica Financial Corp., 7.625%, 10/15/25	\$ 5,507,967
		Reinsurance - 0.3%	
750,000	(a)	Foundation Re, Ltd., 9.46%, 11/24/08 (144A)	\$ 712,980
500,000	(a)	Residential Reinsurance 2005, 13.81%, 6/6/08	469,900 \$ 1,182,880
		Total Insurance	\$16,328,297

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Software & Services - 3.5%		
IT Consulting & Other Services - 1.0%		
4,450	(e) MSX International UK/MXS International Business Ser	\$ 4,516,750
Data Processing & Outsourced Services - 1.3%		
640,000	iPayment, Inc., 9.75%, 5/15/14	\$ 640,000
5,250,000	Pegasus Solutions, Inc., 10.5%, 4/15/15 (144A)	5,250,000
		\$ 5,890,000
Application Software - 0.2%		
810,000	Open Solutions, Inc., 9.75%, 2/1/15 (144A)	\$ 818,100
Computer Hardware - 1.0%		
2,900,000	(b) CHR Intermediate Holding Corp., 12.61%, 6/1/13 (144A)	\$ 2,889,125
3,750,000	Compucom Systems, Inc., 12.0%, 11/1/14 (144A)	4,031,250
		\$ 6,920,375
	Total Software & Services	\$18,145,225
Technology Hardware & Equipment - 3.4%		
Computer Hardware - 0.7%		
2,945,000	Activant Solutions, Inc., 9.5%, 5/1/16	\$ 2,893,462
Office Electronics - 2.7%		
11,830,000	Xerox Capital Trust I, 8.0%, 2/1/27	\$12,144,832
	Total Technology Hardware & Equipment	\$15,038,294
Semiconductors & Semiconductor Equipment - 0.3%		
Semiconductors - 0.3%		
1,300,000	(a) Freescale Semiconductor, Inc., 9.235%, 12/15/14 (14A)	\$ 1,254,500
	Total Semiconductors & Semiconductor Equipment	\$ 1,254,500
Telecommunication Services - 14.0%		
Alternative Carriers - 0.6%		
2,500,000	PAETEC Holding Corp., 9.5%, 7/15/15 (144A)	\$ 2,500,000
Integrated Telecommunication Services - 2.5%		
7,149,000	Eschelon Operating Co., 8.375%, 3/15/10	\$ 6,907,721
3,720,000	GC Impsat Holdings I Plc, 9.875%, 2/15/17 (144A)	3,766,500
691,000	Tele Norte Leste Participacoes SA, 8.0%, 12/18/13	725,550
		\$11,399,771
Wireless Telecommunication Services - 10.9%		
4,165,000	Broadview Networks Holdings, Inc., 11.375%, 9/1/12	\$ 4,414,900
1,625,000	Cell C Property, Ltd., 11.0%, 7/1/15 (144A)	1,523,437
2,855,000	(a) Cleveland Unlimited, Inc., 13.61%, 12/15/10 (144A)	3,126,225
6,900,000	Cricket Communications, Inc., 9.375%, 11/1/14	7,124,250
1,500,000	Digicel, Ltd., 9.25%, 9/1/12 (144A)	1,580,625
2,500,000	(a) Hellas Telecommunications Luxembourg II, 11.106%, 1/	2,575,000
5,000,000	Hughes Network Systems LLC, 9.5%, 4/15/14	5,225,000
2,200,000	(d) Inmarsat Finance II Plc, 0.0%, 11/15/12	2,098,250
3,200,000	(d) Intelsat Intermediate Holding Co., Ltd., 0.0%, 2/1/1	2,632,000
5,150,000	Mobifon Holdings BV, 12.5%, 7/31/10	5,497,625
3,230,000	Mobile Telesystems, 9.75%, 1/30/08 (144A)	3,287,494
3,000,000	(a) Rural Cellular Corp., 11.106%, 11/1/12	3,090,000
3,200,000	Stratos Global Corp., 9.875%, 2/15/13	3,400,000
3,020,000	True Move Co, Ltd., 10.75%, 12/16/13 (144A)	3,201,200
		\$48,776,006
	Total Telecommunication Services	\$62,675,777
Utilities - 2.3%		
Electric Utilities - 1.9%		
2,000,000	Aes Chivor SA ESP, 9.75%, 12/30/14 (144A)	\$ 2,265,000
1,500,000	Mirant JPSCo. Finance, Ltd., 11.0%, 7/6/16 (144A)	1,650,000
4,436,159	Ormat Funding Corp., 8.25%, 12/30/20	4,524,882

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				\$ 8,439,882
		Multi - Utilities - 0.4%		
2,175,000	(a)	Power Contract Financing III LLC, 0.681%, 2/5/10	(1\$ 1,805,250	
		Total Utilities		\$10,245,132
		TOTAL CORPORATE BONDS & NOTES		
		(Cost \$490,832,406)		\$517,712,888
		CONVERTIBLE BONDS & NOTES - 0.4% of Net Assets		
		Software & Services - 0.4%		
		Systems Software - 0.4%		
1,400,000		Macrovision Corp., 2.625%, 8/15/11 (144A)	\$ 1,743,000	
		TOTAL CONVERTIBLE BONDS & NOTES		
		(Cost \$1,400,000)		\$ 1,743,000
		MUNICIPAL BONDS - 7.1% of Net Assets		
		Indiana - 1.4%		
1,650,000		East Chicago Industrial Pollution Control Revenue, \$	1,730,108	
4,250,000		Indiana Development Finance Authority Revenue, 5.75%	4,372,102	
			\$ 6,102,210	
		Michigan - 0.0%		
3,000,000		Wayne Charter County, Special Airport Facilities Re\$	0	
		New Jersey - 2.1%		
4,525,000		New Jersey Economic Development Authority Revenue, \$	4,793,604	
4,000,000		Tobacco Settlement Financing Corp., 7.0%, 6/1/41	4,622,480	
			\$ 9,416,084	
		New York - 0.9%		
3,475,000		New York City Industrial Development Agency, Britis\$	3,819,720	
		North Carolina - 1.5%		
4,800,000		Charlotte, Special Facilities Revenue, Charlotte/Do\$	4,793,664	
2,000,000		Charlotte, Special Facilities Revenue, Charlotte/Dou	2,119,680	
			\$ 6,913,344	
		Ohio - 0.3%		
1,275,000	(a)	Ohio Air Quality Development Authority Revenue, 10.\$	1,275,000	
		Texas - 0.9%		
3,200,000	(f)	San Antonio, Texas, Electric & Gas, RIB, 7.915%, 2/\$	3,993,568	
		TOTAL MUNICIPAL BONDS		
		(Cost \$24,331,532)		\$31,519,926
		MUNICIPAL COLLATERALIZED DEBT OBLIGATION - 0.7% of Net Assets		
3,300,000	(g)	Non-Profit Preferred Funding Trust I, 12.5%, 9/15/3\$	3,298,581	
		TOTAL MUNICIPAL COLLATERALIZED DEBT OBLIGATION		
		(Cost \$3,293,400)		\$ 3,298,581
		SOVEREIGN DEBT OBLIGATIONS - 2.0% of Net Assets		
		Brazil - 0.8%		
4,800,000,0	(d)	Banco Nacional de Desenvolvimento Bndes, 8.0%, 4/28/\$	3,582,364	
		Ecuador - 0.6%		
3,515,000	(d)	Federal Republic of Ecuador, 10.0%, 8/15/30 (144A)	\$ 2,882,300	
		Russia - 0.6%		
2,308,400	(d)	Russia Government International Bond, 7.5%, 3/31/30\$	2,542,703	
		TOTAL SOVEREIGN DEBT OBLIGATIONS		
		(Cost \$6,125,575)		\$ 9,007,367
		FLOATING RATE LOAN INTERESTS - 5.8% of Net Assets(h)		
		Energy - 0.2%		

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Oil & Gas Exploration & Production - 0.2%	
710,000	SandRidge Energy, Inc., Unsecured Bridge Term Loan, \$ 727,750
300,000	Venoco, Inc., Second Lien Term Loan, 9.36%, 9/20/11 303,000
	Total Energy \$ 1,030,750
Capital Goods - 0.5%	
Building Products - 0.4%	
2,000,000	Custom Building Products, Inc., Second Lien Term Lo\$ 1,997,084
Construction & Farm Machinery & Heavy Trucks - 0.1%	
397,920	Rental Service Corp., Second Lien Initial Term Loan\$ 400,532
	Total Capital Goods \$ 2,397,616
Automobiles & Components - 0.9%	
Auto Parts & Equipment - 0.9%	
3,885,000	Lear Corp., U.S. Term Loan, 2.75%, 7/2/14 \$ 3,854,514
	Total Automobiles & Components \$ 3,854,514
Consumer Durables & Apparel - 0.7%	
Homebuilding - 0.7%	
2,850,000	LandSource Communities Development LLC, Second Lien\$ 2,874,937
	Total Consumer Durables & Apparel \$ 2,874,937
Household & Personal Products - 0.1%	
Household Products - 0.1%	
500,000	Huish Detergents, Inc., Second Lien Term Loan, 9.57\$ 499,375
	Total Household & Personal Products \$ 499,375
Health Care Equipment & Services - 1.1%	
Health Care Equipment & Services - 0.4%	
1,800,000	Niagara Corp., Term Loan B, 5.0%, 6/29/14 \$ 1,800,000
Health Care Facilities - 0.7%	
3,175,000	Community Health Systems, Inc., Sr. Unsecured Bridg\$ 3,185,417
	Total Health Care Equipment & Services \$ 4,985,417
Diversified Financials - 1.2%	
Other Diversified Financial Services - 1.2%	
2,500,000	J.G. Wentworth, Second Lien Term Loan, 10.35%, 3/1/\$ 2,512,500
2,009,513	Louis Topco, Ltd., Term Loan, 11.863%, 6/1/17 2,732,039
	Total Diversified Financials \$ 5,244,539
Insurance - 0.5%	
Multi-Line Insurance - 0.5%	
2,250,000	AmWins Group, Inc., Second Lien Term Loan, 5.75%, 6\$ 2,254,219
	Total Insurance \$ 2,254,219
Utilities - 0.6%	
Independent Power Producers & Energy Traders - 0.6%	
817,560	NRG Energy, Inc., Credit-Linked Deposit, 1.75%, 2/1\$ 815,297
1,968,623	NRG Energy, Inc., Term Loan, 1.75%, 2/1/13 1,963,174
	Total Utilities \$ 2,778,471
TOTAL FLOATING RATE LOAN INTERESTS	
	(Cost \$25,747,317) \$25,919,838
FIXED RATE LOAN INTERESTS - 0.3% of Net Assets	
Energy - 0.3%	
Oil & Gas Exploration & Production - 0.3%	
1,070,000	SandRidge Energy, Inc., Unsecured Bridge Term Loan,\$ 1,096,750
	TOTAL FIXED RATE LOAN INTERESTS
	(Cost \$1,070,000) \$ 1,096,750

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Shares	COMMON STOCKS - 0.5% of Net Assets		
	Transportation - 0.3%		
	Airlines - 0.3%		
62,126	(1) Northwest Airlines Corp.	\$ 1,379,197	
	Total Transportation		
	Pharmaceuticals & Biotechnology & Life Sciences - 0.2%		
	Pharmaceuticals - 0.2%		
17,818	Teva Pharmaceutical Industries, Ltd. (A.D.R.)	\$ 734,993	
	Total Pharmaceuticals & Biotechnology & Life Sciences		
	TOTAL COMMON STOCKS		
	(Cost \$2,886,220)	\$ 2,114,190	
	WARRANTS - 0.1% of Net Assets (i)		
	Energy - 0.1%		
	Oil & Gas Drilling - 0.1%		
2,500,000	Norse Energy Corp. ASA - CW11, Expires 7/14/11	\$ 529,092	
	Total Energy	\$ 529,092	
	Materials - 0.0%		
	Forest Products - 0.0%		
1,645	(g) Mandra Forestry Holdings, Ltd. - CW13, Expires 5/15	\$ 0	
	Total Materials	\$ 0	
	Transportation - 0.0%		
	Railroads - 0.0%		
4,525	Atlantic Express Transportation Corp., Expires 4/15	\$ 6,787	
	Total Transportation	\$ 6,787	
	TOTAL WARRANTS		
	(Cost \$523,408)	\$ 535,879	
Principal Amount			
USD (\$)	Value		
	TEMPORARY CASH INVESTMENTS - 4.7% of Net Assets		
	Repurchase Agreement - 1.7%		
7,500,000	Lehman Brothers Holdings, Inc., 4.0%, dated 6/29/07, repurchase price of \$8,700,000 plus accrued interest on 7/2/07 collateralized by \$5,880,000 U.S\$7,500,000		
Shares	Security Lending Collateral - 3.0%		
13,684,012	Securities Lending Investment Fund, 5.284%	\$13,684,012	
	TOTAL TEMPORARY CASH INVESTMENTS		
	(Cost \$21,184,012)	\$21,184,012	
	TOTAL INVESTMENTS IN SECURITIES - 137.8%		
	(Cost \$579,661,977) (j) (k)	\$615,389,852	
	OTHER ASSETS AND LIABILITIES - (3.9)%		
	PREFERRED SHARES AT REDEMPTION VALUE,		
	INCLUDING DIVIDENDS PAYABLE - (33.9)%	\$ (151,172,916)	
	NET ASSETS APPLICABLE TO COMMON SHAREOWNERS - 100.0%		
		\$446,559,824	
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 June 30, 2007, the value of these securities amounted to		

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\$222,979,336 or 49.9% of total net assets applicable to common shareowners.

(a) Floating rate note. The rate shown is the rate at June 30, 2007.

(b) Represents a pay-in-kind security which may pay interest in additional principal.

(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, 2007.

(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, 2007.

(g) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is

\$3,293,400. The aggregate value \$3,298,581 represents 0.7% 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 or (iv) other base lending rates used by commercial lenders. The rate shown is the coupon rate at June 30, 2007.

(i) Non-income producing.

(j) At June 30, 2007, the net unrealized gain on investments based on cost for federal income tax purposes of \$578,941,127 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost \$39,124,973

Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value (2,676,248)

Net unrealized gain \$36,448,725

For financial reporting purposes net unrealized gain was \$36,725,890 and cost of investments aggregated \$579,378,988.

(k) Distribution of investments by country of issue, as a percentage of total holdings, is as follows:

United States	76	%
Canada	4	
Brazil	4	
Norway	3	
Great Britain	2	
Netherlands	2	
Mexico	2	
Cayman Islands	1	
Luxembourg	1	

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Virgin Islands	1	
Germany	1	
Bermuda	1	
Australia	1	
Thailand	1	
Ecuador	1	
Russia	0	
Colombia	0	
Jamaica	0	
South Africa	0	
Singapore	0	
Israel	0	
	100	%

(1) At June 30, 2007, the following securities were out on loan:

Principal Amount	Description	Market Value
1,605,000	Angiotech Pharmaceuticals, Inc., 7.75%, 4/1/14	\$1,512,712
5,905,350	Cooper-Standard Automotive, Inc., 8.375%, 12/15/14	5,506,739
1,569,490	Georgia Gulf Corp., 10.75%, 10/15/16	1,561,643
1,465,200	TOUSA, Inc., 10.375%, 7/1/12	1,230,768
89,000	WCI Communities, Inc., 7.875%, 10/1/13	81,880
594,000	William Lyon Homes, Inc., 7.5%, 2/15/14	498,960
1,633,500	Yankee Acquisition Corp., 9.75%, 2/15/17	1,580,411
Shares		
61,505	Northwest Airlines Corp.	1,365,411
		\$13,338,524
(A.D.R)	American Depositary Receipt	
RIB	Residual Interest Bonds	

For the period ended June 30, 2007, the Trust had unfunded loan commitments of \$717,011 which would be extended at the option of the borrower, pursuant to the following loan agreements:

Borrower	Unfunded Commitment
NRG Holdings, Inc., HoldCo Delayed Draw Term Loan	\$ 717,011
	\$ 717,011

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.

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(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 August 29, 2007

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, 2007

By (Signature and Title)* /s/ Vincent Nave
Vincent Nave, Treasurer

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Date August 29, 2007

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