Pioneer Floating Rate Trust Form N-Q October 30, 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 811-21654

Pioneer Floating Rate 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: November 30

Date of reporting period: August 31, 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 30b1-5under 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.

ITEM 1. Schedule of Investments.

Pioneer Floating Rate Trust

SCHEDULE OF INVESTMENTS 8/31/07 (unaudited)

Principal Amount			Value (¢)
USD (\$)			Value (\$)
		SENIOR SECURED FLOATING RATE LOAN INTERESTS - 142.9% of Net Assets*	
3,630,607 2,992,500 945,000 2,000,000 4,386,648 985,000 5,940,000 5,000,000 3,000,000	(b)	Aerospace - 6.2% AWAS Capital, Inc., First Lien Term Loan, 7.125%, DeCrane Aircraft Holdings, Inc., First Lien Term Delta Airlines, Inc., Credit-Linked Deposit Loan, Delta Airlines, Inc., Second Lien Term Loan, 8.61 DynCorp International, LLC (Di Finance), New Term IAP Worldwide Services, Inc., First Lien Term Loa Northwest Airlines, Inc., DIP, Term Loan, 7.85%, US Airways Group, Inc., Term Loan, 7.86%, 3/23/14 Vought Aircraft Industries, Inc., Tranche B LC De	3,467,230 2,902,725 902,475 1,932,000 4,189,249 999,775 5,810,063 4,730,730 2,928,750
		Broadcasting - 12.2%	27,862,997
2,500,000 1,000,000 738,750 997,498 7,000,000 4,979,935 19,523,810		Gray Television, Inc., Delayed Draw Term Loan B, Hargray Acquisition Co., Second Lien Term Loan, 1 Montecito Broadcast Group, LLC, First Lien Term L NEP II, Inc., Term Loan B, 7.61%, 2/16/14 Paxson Communications Corp., Term Loan, 8.61%, 1/Riverdeep Interactive Learning USA, Inc., Term Lo Seven Media Group, Facility Term Loan A, 8.835%,	2,359,375 975,000 725,822 957,599 6,825,000 4,896,521 15,337,606
60,403 20,671,141 3,828,494		Univision Communications, Inc., Delayed Draw Term Univision Communications, Inc., Initial Term Loan Young Broadcasting, Inc., Term Loan, 7.875%, 11/3	56,049 19,181,103 3,584,428 54,898,503
11,475,000 8,366,337 6,300,000 3,000,000		Cable/Wireless Video - 12.5% Cequel Communications, LLC, Term Loan, 9.25%, 11/ Charter Communications Operating, LLC, Existing T Charter Communications Operating, LLC, New Term L Insight Midwest Holdings, LLC, Term Loan B, 7.36%	10,874,158 7,940,549 5,979,374 2,931,093
7,000,000 12,629,627 343,721 6,500,000 3,000,000	(a) (b (b)	Knology, Inc., Term Loan, 7.61%, 6/30/12)Millennium Digital Media Systems, LLC, Facility T Millennium Digital Media Systems, LLC, Revolver, WideOpenWest Finance, LLC, First Lien Term Loan, WideOpenWest Finance, LLC, Second Lien Term Loan,	6,807,500 12,461,236 332,120 6,066,664 2,730,000 56,122,694
1,000,000	(b)	Chemicals - 0.2% Panda Hereford Ethanol, L.P., Tranche A Term Loan	977,500
884,667		Consumer - Durables - 0.2% Rexair, LLC, First Lien Term Loan, 9.614%, 6/30/1	871 , 397
2,268,000 995,000 4,073,701 724,930 201,369 995,000		Consumer - Non-Durables - 2.0% Camelbak Products, LLC, First Lien Term Loan, 9.1 GTM Holding, Inc. (GoldToe), First Lien Term Loan Spectrum Brands (fka Rayovac Corp.), Dollar Term Spectrum Brands (fka Rayovac Corp.), Dollar Term Spectrum Brands (fka Rayovac Corp.), LC Loan, 5.1 Totes Isotoner Corp., First Lien Term Loan, 7.768	2,126,250 965,150 3,973,557 688,683 196,419 965,150

	Construction Development Of the	8,915,209
992,288	Consumer - Products - 0.2% Solo Cup Co., Term Loan B-1, 8.86% - 10.75%, 2/27	977,094
	Diversified Media - 8.6%	
992,500 9,166,089 1,995,000 3,500,000 3,974,719 12,000,000 7,466,667 718,033 1,455,000	Nielsen Finance, LLC, Dollar Term Loan, 7.36%, 8/MGM Holdings II, Inc./LOC Acquisition Co., Tranch Penton Media Holdings, Inc., First Lien Term Loan Penton Media Holdings, Inc., Second Lien Term Loa Sunshine Acquisition, Ltd., Facility Term Loan, 7 Tribune Co., Initial Tranche B Advance Term Loan, Tribune Co., Tranche X Advance Term Loan, 7.86%, Valassis Communications, Inc., Tranche B Term Loa Wallace Theater Corp. (Hollywood Theaters), First	957,762 8,695,282 1,898,991 3,307,500 3,736,236 10,940,628 7,312,002 666,574 1,418,625 38,933,600
6,880,643 1,800,000 486,486 2,500,962 1,500,000 466,276 466,276 3,000,000 3,989,864 450,000 2,543,625 2,000,000 2,000,000 1,250,000 4,298,431 895,000	Energy - 7.5% ATP Oil & Gas Corp., First Lien Term Loan, 8.824% Big West Oil, LLC, Initial Advance Term Loan, 7.6 Coffeyville Resources, LLC, Funded LC Loan, 8.36% Coffeyville Resources, LLC, Tranche D Term Loan, Connacher Finance Corp., Term Loan, 8.6%, 10/20/1 Delphi Acquisition Holding I B.V., Facility Term Delphi Acquisition Holding I B.V., Facility Term Endeavour International Holding B.V., Second Lien Helix Energy Solutions Group, Inc., Term Loan, 5. III Exploration II, L.P., Delayed Draw Term Loan, III Exploration II, L.P., Initial Draw Term Loan, III Exploration II, L.P., Second Lien Term Loan, Monitor U.S. Finco, Inc., Second Lien Term Loan, TARH E&P Holdings, L.P., First Lien Term Loan, 9. Value Creation, Inc., Term Loan, 12.82% - 12.846% Volnay Acquisition Co. I (CGG), Facility Term Loa	6,790,335 1,712,250 470,524 2,418,900 1,496,250 451,996 454,328 2,970,000 3,873,910 434,250 2,454,598 1,930,000 1,980,000 1,237,500 4,169,478 856,963 33,701,282
1,000,000 (b) 215,686 3,063,725 1,000,000 (b)	Financial - 1.1% Concord Re, Ltd., Term Loan, 9.605%, 2/29/12 HUB International Holdings, Inc., Delay Draw Term HUB International Holdings, Inc., Initial Term Lo Kepler Holdings, Ltd., Term Loan, 10.82%, 6/30/09	980,000 207,733 2,950,751 980,000 5,118,484
1,990,000	Food & Drug - 0.4% Roundy's Supermarkets, Inc., Tranche B Term Loan,	1,967,612
995,000 (b) 11,705 166,371 989,899 1,857,663 142,337 5,000,000	Food & Tobacco - 2.0% Aramark Canada, Ltd., Canadian Term Loan, 7.36%, Aramark Corp., LC Facility Loan, 5.36%, 1/27/14 Aramark Corp., U.S. Term Loan, 7.36%, 1/27/14 Chiquita Brands, LLC, Term Loan C, 8.563%, 6/28/1 OSI Restaurant Partners, LLC, Incremental Term Lo OSI Restaurant Partners, LLC, Synthetic Revolver, Pinnacle Foods Finance, LLC, Term Loan, 8.11%, 4/	962,662 11,316 160,839 970,101 1,767,683 135,443 4,791,665 8,799,709
833,333 166,667	Forest Products & Containers - 0.2% Newark Group, Inc., Synthetic LC Loan, 7.76%, 3/9 Newark Group, Inc., Term Loan, 7.76%, 3/9/13	791,667 158,333 950,000
2,428,571 1,821,429 5,000,000 1,333,333 2,369,368 5,120,301	Gaming & Leisure - 6.4% Alpha Topco Limited (Formula One), Facility Term Alpha Topco Limited (Formula One), Facility Term Fontainebleau Florida Hotel, LLC, Tranche C Term Fontainebleau Las Vegas, LLC/Fontainebleau Las Ve Ginn LA Conduit Lender, Inc., First Lien Tranche Ginn LA Conduit Lender, Inc., First Lien Tranche	2,322,321 1,741,741 4,950,000 1,257,223 2,061,350 4,454,662

361,111 2,638,889 2,000,000 2,965,124 1,473,703 1,473,703	Lake at Las Vegas Joint Venture / LLV-1, LLC, Syn Lake at Las Vegas Joint Venture / LLV-1, LLC, Ter Orbitz Worldwide, Inc., Term Loan, 8.34%, 7/25/14 Pivotal Promontory, LLC, First Lien Term Loan, 8. Trump Entertainment Resorts Holdings, L.P., Facil Trump Entertainment Resorts Holdings, L.P., Facil Yellowstone Mountain Club, LLC, First Lien Term L	357,500 2,401,389 1,950,000 2,809,455 1,449,755 1,449,755 1,610,273 28,815,424
5,170,000 979,493 5,370,609 796,000 200,000	Healthcare - 17.2% Alliance Imaging, Inc., Tranche C-1 Term Loan, 7. Capella Healthcare, Inc., First Lien Term Loan, 8 CCS Medical, Inc. (Chronic Care), First Lien Term CHG Acquisition Corp., First Lien Term Loan B, 7. CHG Acquisition Corp., Synthetic LC Loan, 7.86%,	5,082,756 937,865 5,219,560 764,160 192,000
4,690,642 1,980,000 3,420,000 5,000,000 2,739,643	CHS/ Community Health Systems, Inc., Funded Term DSI Renal, Inc. (National Renal Institutes, Inc.) Fenwal, Inc., Initial First Lien Term Loan, 7.61% FHC Health Systems, Inc., Third Lien Term Loan, 1 Golden Gate National Senior Care, LLC, First Lien	4,523,538 1,893,375 3,167,775 5,050,000 2,657,454
2,000,000 2,000,000 20,895,000 1,690,141 3,000,000	Golden Gate National Senior Care, LLC, Second Lie Graceway Pharmaceuticals, LLC, Mezzanine Loan, 13 HCA, Inc., Tranche B Term Loan, 7.61%, 11/18/13 HealthSouth Corp., Term Loan, 7.82% - 7.85%, 3/10 LifeCare Holdings (Rainier Acquisition Corp), Ter	1,980,000 1,660,000 20,188,164 1,632,254 2,812,500
1,000,000 3,500,000 208,779 788,721 1,965,628	Medical Staffing Network, Inc., Second Lien Term Onex Carestream Finance, L.P., First Lien Term Lo Reliant Pharmaceuticals, Inc., Delayed Draw Term Reliant Pharmaceuticals, Inc., Initial Term Loan, Renal Advantage, Inc., Tranche B Term Loan, 7.86%	992,500 3,276,875 200,428 757,172 1,889,460
1,960,000 4,975,000 2,977,509 2,124,158 590,549	Skilled Healthcare Group, Inc., First Lien Term L Talecris Biotherapeutics Holdings Corp., First Li Triumph HealthCare Second Holdings, LLC, First Li Warner Chilcott Co., Inc., Tranche B Acquisition Warner Chilcott Corp., Tranche C Acquisition Date	1,950,200 4,928,359 2,903,072 2,055,123 571,356
1,965,714 6,111,125 1,582,218	Housing - 8.5% Associated Materials, Inc., Term Loan, 7.86% - 7. Atrium Companies, Inc., Closing Date Term Loan, 8 Champion Home Builders Co., Synthetic LC Loan, 5.	77,285,946 1,887,086 5,576,401 1,526,840
860,356 2,799,785 459,128 5,000,000 932,633	Champion Home Builders Co., U.S. Term Loan, 8.258 Custom Building Products, Inc., First Lien Term L Desa, LLC, Term Loan, 15.0%, 11/26/11 LNR Property Corp., Initial Tranche B Term Loan, Playpower, Inc., Tranche B Dollar Term Loan, 8.11	830,244 2,631,798 439,041 4,870,835 913,981
3,151,515 848,485 2,196,426 5,000,000 1,000,000	Realogy Corp., Initial Term Loan B, 8.36%, 10/10/ Realogy Corp., Synthetic LC Loan, 8.32%, 10/10/13 Rhodes Companies, LLC, First Lien Term Loan, 3.5 Spirit Finance Corp., Term Loan, 3.0%, 8/1/13 WAICCS Las Vegas 3, LLC, First Lien Term Loan, 8.	2,880,135 775,421 1,954,819 4,575,000 990,000
4,500,000 3,957,333	WAICCS Las Vegas 3, LLC, Second Lien Term Loan, 1 Woodlands Commercial Properties Co., L.P., Bridge Information Technology - 11.7% Aeroflex, Inc., Tranche B-1 Term Loan, 3.25%, 8/1	4,500,000 3,917,760 38,269,361
500,000 500,000 2,660,860 4,651,163 348,837 2,970,056	Aeroflex, Inc., Tranche B-2 Term Loan, 3.75%, 8/1 Applied Systems, Inc., Term Loan, 7.853% - 7.86%, Caritor, Inc., Closing Date Term Loan, 7.61%, 6/4 Caritor, Inc., Synthetic LC Loan, 7.61%, 6/4/13 DTN, Inc., Tranche C Term Loan, 8.36% - 8.405%, 3	480,000 480,000 2,607,643 4,313,953 323,547 2,984,907
5,000,000 3,746,667	Freescale Semiconductor, Inc., Term Loan, 7.11%, GXS Worldwide, Inc., First Lien Term Loan, 10.32%	4,692,615 3,727,933

2,000,000 2,041,714 3,000,000 First Lien	GXS Worldwide, Inc., Second Lien Term Loan, 14.61 Infor Enterprise Solutions Holdings, Inc., Delaye Infor Enterprise Solutions Holdings, Inc., Dollar	1,990,000 1,944,733 Tranche B-1
3,913,286 763,670 2,000,000 997,500 1,000,000 4,000,000 1,500,000 3,587,500 1,946,921 6,860,525 938,462	Term Commitment, 8.11%, 3/2/14 Infor Enterprise Solutions Holdings, Inc., Initia Inovis International, Inc., Term Loan, 9.088% - 9 IPC Systems, Inc., Tranche B-1 Term Loan, 7.61%, Metrologic Instruments, Inc., Add-on First Lien T Metrologic Instruments, Inc., Add-on Second Lien NameMedia, Inc., Term Loan, 11.33%, 9/7/08 Quantum Corp., Term Loan, 3.5%, 7/14/14 Serena Software, Inc., Term Loan, 7.336%, 3/11/13 Sitel, LLC (ClientLogic), U.S. Term Loan, 7.82% - SunGard Data Systems, Inc., (Solar Capital Corp.), Verint Systems, Inc., Term Loan, 8.106%, 5/27/14	2,872,500 3,727,405 763,670 1,796,666 946,264 952,500 3,940,000 1,477,500 3,467,918 1,878,779 6,667,964 907,962 52,944,459
1,000,000 1,000,000 2,960,000 1,000,000 2,000,000 4,389,944	Manufacturing - 1.2% FCI USA, Inc., Facility Term Loan B-1, 7.755%, 3/ FCI USA, Inc., Tranche Term Loan B-5-B, 7.755%, 1 Generac Acquisition Corp., First Lien Term Loan, Hunter Defense Technologies, Inc., First Lien Ter Metals & Minerals - 1.4% Algoma Steel, Inc., Term Loan, 7.86%, 6/20/13 Murray Energy Corp., First Lien Tranche B Term Lo	966,667 948,125 2,651,313 945,000 5,511,105 1,915,000 4,258,245 6,173,245
9,121,064 4,919,900 2,000,000 2,841,426 15,765,928 (b) 886,909 1,994,975 360,192 8,632,608 1,987,487 4,000,000	Retail - 10.0% Blockbuster, Inc., Tranche B Term Loan, 9.58% - 9 Burlington Coat Factory Warehouse Corp., Term Loa Dollar General Corp., Tranche B-1 Term Loan, 8.07 Dollarama Group, L.P., Replacement Term Loan B, 7 Home Interiors & Gifts, Inc., Initial Term Loan, MAPCO Express, Inc./MAPCO Family Centers, Inc., T Michaels Stores, Inc., Replacement Term Loan, 7.6 Movie Gallery, Inc., First Lien Synthetic LC Loan Movie Gallery, Inc., First Lien Term Loan, 8.86%, Sally Holdings, LLC, Term Loan B, 7.86%, 11/18/13 Toys R Us - Delaware, Inc., Tranche B Term Loan,	8,870,235 4,633,493 1,791,666 2,784,597 10,957,320 864,736 1,889,882 301,811 7,233,409 1,929,882 3,966,252 45,223,283
938,526 3,990,000 795,841 12,203,980 995,000 3,800,000 67,223 335,831	Service - 4.9% Alliance Laundry Systems, LLC, Term Loan, 7.58% - Inmar, Inc., Term Loan, 7.86%, 4/29/13 Rental Service Corp., Second Lien Initial Term Lo Sabre, Inc., Initial Term Loan, 7.608%, 9/30/14 Total Safety U.S., Inc., First Lien Tranche B Ter Travelport, LLC, Delayed Draw Term Loan, 7.753%, Travelport, Inc., Synthetic LC Loan, 7.86%, 8/23/Travelport, Inc., Tranche B Dollar Term Loan, 7.7	924,448 3,900,225 773,955 11,343,599 975,100 3,655,600 64,668 323,070 21,960,665
752 , 152 390 , 705	Telecommunications - 7.8% Amsterdamse Beheer-EN Consultingmaatschappij B.V. Casema Term Loan B-1, 6.921%, 9/12/14 Amsterdamse Beheer-EN Consultingmaatschappij B.V. Casema Term Loan B-2, 6.921%, 9/12/14	998,580
1,142,857	Amsterdamse Beheer-EN Consultingmaatschappij B.V. Casema Term Loan C, 7.421%, 9/12/15	(Casema), 1,525,082
857,143	Amsterdamse Beheer-EN Consultingmaatschappij B.V. Kabelcom Term Loan B, 6.546%, 9/12/14	1,137,969
857,143	Amsterdamse Beheer-EN Consultingmaatschappij B.V. Kabelcom Term Loan C, 7.421%, 9/12/15	1,143,811
1,250,000	Fairpoint Communications, Inc., Replacement Term	1,217,187

173,913 260,870 43,478 513,913 2,420,784 2,977,500 4,000,000 377,635 455,269 645,914 2,000,000 1,485,000 2,415,218 1,500,000 1,500,000	Global Tel Link Corp., Acquisition Synthetic Depo Global Tel Link Corp., Acquisition Term Loan, 10. Global Tel Link Corp., Synthetic Deposit Loan, 8. Global Tel Link Corp., Term Facility, 8.85%, 2/14 Hawaiian Telcom Communications, Inc., Tranche C T Intelsat Corp., Tranche B-2 Term Loan, 7.36%, 1/3 Integra Telecom Holdings, Inc., First Lien Term L Level 3 Financing, Inc., Term Loan, 7.61%, 3/13/1 Nordic Telephone Company Holdings APS, Euro Facil Nordic Telephone Company Holdings APS, Euro Facil PAETEC Holding Corp., Replacement Term Loan, 7.82 Pine Tree Holdings, Inc., (Country Road Communica Stratos Global Corp./Stratos Funding, L.P., Facil Wind Telecomunicazione S.p.A., Facility Term Loan	169,565 254,348 42,391 501,065 2,305,797 2,906,784 3,840,000 6,238,375 501,482 607,514 637,571 1,980,000 1,457,156 3,225,327 2,010,862 2,017,350 35,236,928
4,162,595 9,250,000 1,000,000 11,000,000 1,000,000 7,948,778 1,695,625 497,500 3,990,000 979,009 875,000 1,886,207 1,772,549	Transportation - 9.8% Affinia Group, Inc., Tranche B Term Loan, 8.375%, Dana Corp., Term Loan, 7.98%, 4/13/08 Delphi Corp., Tranche B Term Loan, 7.625%, 12/31/ Delphi Corp., Tranche C Term Loan, 8.125%, 12/31/ Federal-Mogul Corp., DIP Term Loan, 7.25%, 12/31/ Ford Motor Co., Term Loan, 8.36%, 12/16/13 Gainey Corp., Term Loan, 8.1%, 4/20/12 General Motors Corp., Secured Term Loan, 7.735%, Key Safety Systems, Inc., First Lien Term Loan, 7 Lear Corp., First Lien Term Loan B, 7.84% - 8.0%, Quality Distribution, Inc., PF Letter of Credit L Quality Distribution, Inc., Term Loan, 8.565%, 11 SIRVA Worldwide, Inc., Tranche B Term Loan, 12.61	4,079,343 9,122,812 987,500 10,844,163 992,083 7,483,027 1,492,150 476,823 3,860,325 947,039 848,750 1,829,621 1,387,019 44,350,655
4,500,000 775,691 217,194 3,488,593 1,754,777 3,707,771 4,950,000 1,980,000 2,705,156 281,250 1,193,209 225,814 70,788	Utility - 5.6% ANP Funding I, LLC, Tranche A Term Loan, 8.86%, 7 Boston Generating, LLC, First Lien Synthetic LC L Boston Generating, LLC, First Lien Revolving Cred Boston Generating, LLC, First Lien Term Loan, 7.6 Coleto Creek Power, L.P., First Lien Synthetic LC Coleto Creek Power, L.P., First Lien Term Loan, 8 Coleto Creek Power, L.P., Second Lien Term Loan, 8 Coleto Creek Power, L.P., Second Lien Term Loan, 6 GBGH, LLC (U.S. Energy), First Lien Advance Term Mach Gen, LLC, First Lien Term Loan B, 7.5%, 2/22 Mach Gen, LLC, First Lien Synthetic LC Loan, 7.36 TPF Generation Holdings, LLC, First Lien Term Loa TPF Generation Holdings, LLC, Synthetic LC Loan, TPF Generation Holdings, LLC, Synthetic Revolver,	4,493,250 751,451 210,406 3,379,575 1,702,134 3,596,538 4,752,000 1,984,950 2,591,315 269,414 1,144,884 216,669 67,921 25,160,507
1,000,000 847,187 1,148,295 701,705 9,900,000 9,932,475	Wireless Communication - 5.1% Cellnet Group, Inc., Second Lien Term Loan, 9.59% Centennial Cellular Operating Co., New Term Loan, Clearwire Corp., Delayed Draw Term Loan, 6.0%, 7/ Clearwire Corp., Term Loan, 6.0%, 7/3/12 Cricket Communications, Inc., Term Loan B, 7.36%, Metro PCS Wireless, Inc., New Tranche B Term Loan TOTAL SENIOR SECURED FLOATING RATE LOAN INTERESTS (Cost \$669,764,481)	975,000 827,278 1,135,377 693,811 9,654,975 9,699,340 22,985,781

CLAIMS - 0.5% of Net Assets Aerospace - 0.5%

1,200,000 2,500,000 2,500,000 2,130,600 1,500,000 1,264,500 1,404,900	(c) (c) (c) (c) (c) (c)	Northwest Airlines, Inc., ALPA Claim-Escrow, 2.5% Northwest Airlines, Inc., Bell Atlantic Claim-Esc Northwest Airlines, Inc., EDC Claim-Escrow, 5.32% Northwest Airlines, Inc., Flight Attendant Claim-Northwest Airlines, Inc., GE Pre-Petition Claim, Northwest Airlines, Inc., IAM Claim-Escrow, 2.5% Northwest Airlines, Inc., Retiree Claim-Escrow, 2 TOTAL CLAIMS (Cost \$9,027,301)	108,000 225,000 225,000 191,754 1,110,625 113,805 126,441
		CONVERTIBLE BONDS & NOTES - 1.7% of Net Assets	_,_,,,
3,000,000		Cable/Wireless Video - 0.9% Charter Communications, Inc., 5.875%, 11/16/09	4,001,250
1,000,000		Gaming & Leisure - 0.2% Six Flags Theme Parks, Inc., 4.5%, 5/15/15	857,500
120,000		Transportation - 0.6% General Motors Corp., 1.5%, 6/1/09 TOTAL CONVERTIBLE BONDS & NOTES	3,030,000
		(Cost \$6,771,013)	7,888,750
875 , 000		CORPORATE NOTES - 4.8% of Net Assets Cable/Wireless Video - 0.4% CCH I Holdings LLC, 10.0%, 5/15/14	735,000
1,000,000		CCH I Holdings LLC, 11.0%, 10/1/15	980,000 1,715,000
1,000,000		Food & Tobacco - 0.2% Pinnacle Foods Group, Inc., 9.25%, 4/1/15 (144A)	922,500
2,000,000 1,033,727	(b) (a) (k	Healthcare - 0.7% Pharma V (Duloxetine), 13.0%, 10/15/13 (144A) D)Pharma VI (Rotavax), 10.891%, 10/15/14 (144A)	2,000,000 1,013,053 3,013,053
2,000,000	(d)	Housing - 0.4% Builders FirstSource, Inc., 9.808%, 2/15/12	1,920,000
400,000 5,000,000	(d) (d)	<pre>Information Technology - 1.1% Freescale Semiconductor, Inc., 9.235%, 12/15/14 NXP BV, 8.11%, 10/15/13</pre>	368,000 4,531,250 4,899,250
4,500,000 2,500,000		Retail - 1.4% Blockbuster, Inc., 9.0%, 9/1/12 Dollar General Corp., 10.625%, 7/15/15	3,870,000 2,250,000 6,120,000
3,000,000	(d)	Transportation - 0.6% American Tire Distributors, Inc., 11.61%, 4/1/12	2,947,500
		TOTAL CORPORATE NOTES	
Shares		(Cost \$22,563,936)	21,537,303
		COMMON STOCK - 2.7% of Net Assets Aerospace - 1.0%	
243,496	(e)	Northwest Airlines Corp.	4,524,156
196,325	(e)	Utility - 1.7% Mirant Corp. (144A)	7,650,785
		TOTAL COMMON STOCK (Cost \$4,987,782)	12,174,941
		WARRANTS - 0.3% of Net Assets Wireless Communication - 0.3%	

Wireless Communication - 0.3%

400,000	(e)	Clearwire Corp., Exp. 8/15/10 (144A) TOTAL WARRANTS (Cost \$956,752)	1,224,000 1,224,000		
Principal Amount					
USD (\$)		TEMPORARY CASH INVESTMENT - 9.3% of Net Assets Repurchase Agreement - 9.3%			
42,100,000		UBS Warburg, Inc., 5.05%, dated 8/31/07, repurchase price of \$42,100,000 plus accrued interest on 9/4/07 collateralized by \$42,570,000 U.S. Treasury Notes 5.0%, 7/31/08 \$42,100,000			
		TOTAL TEMPORARY CASH INVESTMENT (Cost \$42,100,000)	\$42,100,000		
		OTHER ASSETS AND LIABILITIES - (10.1%) PREFERRED SHARES AT REDEMPTION VALUE, INCLUDING	\$731,039,059 -\$45,711,636 \$234,594,707 \$450,732,716		
NR		Security not rated by S&P or Moody's.			
*		Senior secured floating rate loan interests in whi invests generally pay interest at rates that are page 100 to 10			
redetermin		by reference to a base lending rate plus a premium.			
lending	ra	ates are generally (i) the lending rate offered by o	ne or more		
majorEurop		banks, such as LIBOR (London InterBank Offered Rate)	, (ii) the		
prime rate		offered by one or more major United States banks,(iii) the		
certificat	e of	deposit or (iv) other base lending rates used by	commercial		
lenders.		The rate shown is the coupon rate at August 31, 20	07.		
(144A)	ţ	Security is exempt from registration under Rule 144A Securities Act of 1933. Such securities may be reso to qualified institutional buyers in a transaction engistration. At August 31, 2007 the value of these securities.	ld normally xempt from		
amounted t		\$12,810,338 or 2.8% of total net assets applicable			
shareowner	s.	V12,010,330 Of 2.0% Of total net assets applicable	CO COMMION		
(a)		Payment-in-Kind (PIK) security which may pay interin additional principal amount.	est		
(b) aggregate		Indicates a security that has been deemed illiquid	. The		
		cost of illiquid securities is \$37,704,065. The agr \$33,566,616 represents 7.4% of the total net asset			
(c)		Security is in default and is non-income producing			
(d)		Floating Rate Note. The rate shown is the coupon radiust 31, 2007.	ate at		
(e)		Non-income producing security.			

(f) At August 31, 2007, the net unrealized loss on investments based on cost for federal income tax purposes of \$756,200,369 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax cost \$10,049,050 Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over value -35,210,360 Net unrealized loss -\$25,161,310

For financial reporting purposes net unrealized loss on investments was \$25,132,206 and cost of investments aggregated \$756,171,265.

Purchases and sales of securities (excluding temporary cash investments) for the period ended August 31, 2007, aggregated \$520,957,731 and \$497,301,791, respectively.

For the period ended August 31, 2007, the Trust had unfunded

loan

commitments of approximately \$9,226,000 which would be extended

at

the option of the borrower, pursuant to the following loan

IIn funded

agreements:

	Ulifuliaea
	Commitment
Borrower	(in Thousands)
American Cellular Corp., Delayed Draw Term Loan	\$97
Big West Oil, LLC, Delayed Advance Loan	2,200
CHS/Community Health Systems, Inc., Delayed Draw	309
Cricket Communications, Inc., Revolver	2,000
Delta Airlines, Inc., Credit-Linked Deposit Loan	55
Fenwal, Inc., First Lien Delayed Draw Term Loan	571
Fontainebleau Las Vegas Holdings, LLC, Delayed Dr	667
HUB International Holdings, Inc., Delay Draw Term	471
Millennium Digital Media Systems, LLC, Revolver	1,375
Univision Communications, Inc., Delayed Draw Term	1,268
Valassis Communications, Inc., Delayed Draw Term	213
	\$9,226

Glossary of Terms: DIP - Debtor-In-Possession LC - Letter of Credit

Principal amounts are denominated in U.S. dollars unless

otherwise noted.

AUD - Australian Dollar EURO - Euro

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 CFR270.30a-3(b))) and Rule 13a-15(b) or 15d-15(b) 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 Floating Rate Trust

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

Date October 30, 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 October 30, 2007

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

Date October 30, 2007

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