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Pioneer Floating Rate Trust
Form N-Q
April 28, 2010

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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: February 28, 2010

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

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

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ITEM 1. Schedule of Investments.

Principal Amount USD (\$)		Value (\$)
	Pioneer Floating Rate Trust SCHEDULE OF INVESTMENTS 2/28/10 (unaudited)	
	COLLATERALIZED LOAN OBLIGATIONS - 1.6% of Net Assets	
	Banks - 1.6%	
	Diversified Banks - 0.5%	
1,000,000	(a) (b) (c) Primus, Ltd., 2007-2A D, 2.651%, 7/15/21 (144	147,510
1,000,000	(a) (b) Rampart, Ltd., 2006-1A, 3.801%, 4/18/21 (144A	613,360
951,289	(a) (b) Stanfield McLaren, Ltd., 2007-1A B2L, 4.752%,	662,925
		1,423,795
	Thriffs & Mortgage Finance - 1.1%	
1,000,000	(a) (b) ACA, Ltd. 2007-1A D, 2.601%, 6/15/22 (144A)	561,540
1,000,000	(a) (b) Goldman Sachs Asset Management, Plc, 2007-1A	594,570
1,013,186	(a) (b) Gulf Stream Sextant, Ltd., 2007-1A D, 2.653%,	592,683
1,000,000	(a) (b) Landmark CDO, Ltd., 2007-9A E, 3.751%, 4/15/2	454,430
2,000,000	(a) (b) Stone Tower, Ltd., 2007-6A C, 1.601%, 4/17/21	1,000,000
		3,203,223
	Total Banks	4,627,018
	TOTAL COLLATERALIZED LOAN OBLIGATIONS	
	(Cost \$6,285,819)	4,627,018
	SENIOR SECURED FLOATING RATE LOAN INTERESTS - 139.9%*	
	Energy - 5.7%	
	Oil & Gas Drilling - 2.2%	
2,184,684	Big West Oil LLC, Delayed Advance Term Loan,	2,157,375
1,737,816	Big West Oil LLC, Initial Advance Term Loan,	1,716,094
1,300,000	Big West Oil LLC, Term Loan, 9.5%, 1/30/15	1,261,000
942,442	(a) (d) (e) TARH E&P Holdings, L.P., First Lien Second Ou	942,442
371,360	(a) (d) (e) TARH E&P Holdings, L.P., Second Lien Debt Ter	352,792
		6,429,703
	Oil & Gas Equipment & Services - 2.3%	
2,120,274	Coffeyville Resources LLC, Tranche D Term Loa	2,145,011
4,490,749	(a) (d) Value Creation, Inc., Term Loan, 12.5%, 3/31/	4,681,606
		6,826,617
	Oil & Gas Exploration & Production - 0.9%	
2,055,208	(a) (c) (e) Crusader Energy Group, Inc., Second Lien Term	0
1,000,000	Targa Resources, Inc., Term Loan, 6.0%, 7/5/1	1,005,000
1,612,942	VenoCo., Inc., Second Lien Term Loan, 4.25%,	1,507,093
		2,512,093
	Oil & Gas Storage & Transportation - 0.3%	
1,023,695	Atlas Pipeline Partners, L.P., Term Loan, 6.7	1,021,775
	Total Energy	16,790,188
	Materials - 8.4%	
	Commodity Chemicals - 0.5%	
1,500,000	Celanese US Holdings LLC, Term Loan, 7.099%,	1,444,087
	Diversified Chemicals - 4.0%	
383,573	Ashland, Inc., Term B Borrowing, 7.65%, 5/13/	389,127
250,000	Huntsman International LLC, New Dollar Term L	237,365
10,959,148	Solutia, Inc., Term Loan, 7.25%, 2/28/14	11,135,272
		11,761,764
	Specialty Chemicals - 1.4%	
3,500,000	Chemtura Corp., Facility Term Loan, 6.0%, 2/1	3,521,875

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746,250	Nalco Co., Term Loan, 6.5%, 5/13/16	754,459
		4,276,334
	Construction Materials - 0.5%	
1,500,000	Summit Materials, Term Loan, 6.75%, 7/7/14	1,503,750
	Paper Packaging - 1.7%	
756,195	Graham Packaging Co., L.P., Term Loan B., 2.5	748,841
818,063	Graham Packaging Co., L.P., Term Loan C, 6.75	824,821
1,780,401	Graphic Packaging International, Inc., Increm	1,751,593
1,700,000	Smurfit-Stone Container Enterprises, Inc., Ex	1,692,549
		5,017,804
	Aluminum - 0.3%	
1,000,000	Noranda Aluminum Acquisition Corp., Term Loan	878,333
		878,333
	Total Materials	24,882,072
	Capital Goods - 7.0%	
	Aerospace & Defense - 2.2%	
487,429	Aeroflex, Inc., Tranche B-2 Term Loan, 4.0%,	457,372
1,629,714	BE Aerospace, Inc., Tranche B Term Loan, 5.75	1,646,302
757,268	DAE Aviation Holdings, Inc., Tranche B-1 Term	708,046
1,675,790	Hunter Defense Technologies, Inc., Term Loan,	1,554,295
911,148 (d)	IAP Worldwide Services, Inc., First Lien Term	815,478
738,952	Standard Aero, Ltd., Tranche B-2 Term Loan, 4	690,920
175,000	TASC, Inc., Tranche A Term Loan, 5.5%, 12/18/	176,240
325,000	TASC, Inc., Tranche B Term Loan, 5.75%, 12/18	328,114
		6,376,767
	Building Products - 2.2%	
5,691,518 (a) (c) (d)	Atrium Companies, Inc., Closing Date Term Loa	5,150,823
1,282,982	Custom Building Products, Inc., First Lien Te	1,242,888
		6,393,711
	Construction & Engineering - 0.5%	
1,505,630	URS Corp., Tranche B Term Loan, 2.479%, 5/15/	1,501,622
	Industrial Conglomerates - 0.3%	
989,744	Kansas City Southern Railway Co., Advance Ter	966,650
	Construction & Farm Machinery & Heavy Trucks - 1.8%	
1,500,000	Bucyrus International, Inc., Tranche C U.S. D	1,511,709
2,955,176	Manitowoc Co., Inc., Term Loan B, 7.5%, 11/6/	2,951,482
868,601	Oshkosh Truck Corp., Term Loan B, 6.25% - 6.2	871,315
		5,334,506
	Total Capital Goods	20,573,256
	Commercial & Professional Services - 5.3%	
	Commercial Printing - 0.8%	
40,205	Cenveo Corp., Delayed Draw Term Loan, 4.753%,	40,274
1,408,199	Cenveo Corp., Facility Term Loan C, 4.753%, 6	1,410,620
747,292	World Color Press, Inc. & World Color (USA) C	757,879
		2,208,773
	Diversified Commercial & Professional Services - 2.1%	
970,000	Aramark Canada, Ltd., Canadian Term Loan, 2.1	923,925
5,647,454	Cydcor, Inc., First Lien Tranche B Term Loan,	5,287,429
		6,211,354
	Environmental & Facilities Services - 1.1%	
1,750,000	Advanced Disposal Services, Inc., Term Loan B	1,758,750
1,100,000	Brickman Group Holdings, Inc., Tranche B Term	1,051,875
422,875	Casella Waste Systems, Inc., Term Loan B, 7.0	427,104
		3,237,729
	Diversified Support Services - 1.0%	
890,069	Allied Security Holdings LLC, Term Loan, 6.75	900,639
398,974	Iron Mountain, Inc., Initial Term Loan, 1.5%,	387,005

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1,750,000		Language Line LLC, Tranche B Term Loan, 5.5%,	1,760,937 3,048,581
		Security & Alarm Services - 0.3%	
997,500		Protection One Alarm Monitoring, Inc., Tranch	964,665 15,671,102
		Total Commercial & Professional Services	
		Transportation - 3.2%	
		Airlines - 1.7%	
980,000		Delta Airlines, Inc., Credit-Linked Deposit L	922,016
472,727		Delta Airlines, Inc., Second Lien Term Loan,	403,473
897,750		Delta Airlines, Inc., Term Loan, 8.75%, 9/27/	906,503
3,650,000		US Airways Group, Inc., Term Loan, 2.729%, 3/	2,788,341 5,020,333
		Marine - 0.4%	
1,437,500		Horizon Lines LLC, Term Loan, 3.26%, 8/8/12	1,214,688
		Trucking - 0.6%	
1,067,819	(c) (d)	Gainey Corp., Term Loan, 12.5%, 4/20/12	293,650
512,360		SIRVA Worldwide, Inc., Revolving Credit Loan,	283,079
2,463,211	(d)	SIRVA Worldwide, Inc., Second Lien Term Loan,	338,692
1,080,571		SIRVA Worldwide, Inc., Term Loan, 10.25% - 13	702,371 1,617,792
		Airport Services - 0.5%	
1,713,689		AWAS Capital, Inc., First Lien Term Loan, 2.0	1,602,299
		Total Transportation	9,455,112
		Automobiles & Components - 6.4%	
		Auto Parts & Equipment - 3.3%	
2,878,981		Allison Transmission, Inc., Term Loan, 2.98%	2,650,462
37,495	(c)	Cooper-Standard Automotive Canada, Ltd., Cana	37,111
32,045	(c)	Cooper-Standard Automotive Canada, Ltd., Tran	31,717
97,713	(c)	Cooper-Standard Automotive Canada, Ltd., Tran	96,712
40,695	(c)	Cooper-Standard Automotive, Inc., Multicurren	40,278
244,083	(c)	Cooper-Standard Automotive, Inc., Tranche C T	241,581
271,324	(c)	Cooper-Standard Automotive, Inc., Tranche D T	268,543
134,653	(c)	Cooper-Standard Automotive, Inc., Tranche E T	133,273
75,733	(c)	Cooper-Standard Automotive, Inc., U.S. Revolv	74,957
592,635		Federal-Mogul Corp., Tranche B Term Loan, 2.1	520,408
302,365		Federal-Mogul Corp., Tranche C Term Loan, 2.1	265,514
3,889,710		Key Safety Systems, Inc., First Lien Term Loa	3,080,164
1,687,500		Lear Corp., Delayed Draw Term Loan, 7.5%, 11/	1,696,148
500,000		TRW Automotive Inc., Tranche B-3 Term Loan, 5	502,292 9,639,160
		Automobile Manufacturers - 3.1%	
9,687,108		Ford Motor Co., Tranche B-1 Term Loan, 3.24%	9,099,159
		Total Automobiles & Components	18,738,319
		Consumer Durables & Apparel - 1.0%	
		Homebuilding - 0.5%	
2,369,368	(c) (d)	Ginn LA Conduit Lender, Inc., First Lien Tran	195,473
5,077,235	(c) (d)	Ginn LA Conduit Lender, Inc., First Lien Tran	418,872
1,000,000	(a) (c) (g)	WAICCS Las Vegas 3 LLC, First Lien Term Loan,	300,000
4,500,000	(a) (c) (g)	WAICCS Las Vegas 3 LLC, Second Lien Term Loan	455,625 1,369,970
		Housewares & Specialties - 0.2%	
502,009		Jarden Corp., Term Loan B-3, 2.751%, 1/24/12	499,552
		Apparel, Accessories & Luxury Goods - 0.3%	
1,000,000		Hanesbrands, Inc., New Term Loan, 5.25%, 12/1	1,013,036
		Total Consumer Durables & Apparel	2,882,558

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		Consumer Services - 5.4%	
		Casinos & Gaming - 1.3%	
5,000,000	(a) (c)	Fontainebleau Florida Hotel LLC, Tranche C Te	1,650,000
563,337	(c)	Fontainebleau Las Vegas LLC, Delayed Draw Ter	111,259
1,126,673	(c)	Fontainebleau Las Vegas LLC, Initial Term Loa	222,518
1,200,000		Harrah's Operating Co., Inc., Term Loan B-4,	1,202,000
715,085		Penn National Gaming, Inc., Term Loan B, 1.98	702,750
			3,888,527
		Hotels, Resorts & Cruise Lines - 0.4%	
1,190,445		Yellowstone Mountain Club LLC, Senior First L	1,178,540
		Leisure Facilities - 1.4%	
2,500,000		Cedar Fair, LP Term Loan B, 3.75%, 4/1/16	2,500,390
12,111	(c) (d)	Lake at Las Vegas Joint Venture, Mezzanine Lo	424
587,649	(a) (c)	Lake at Las Vegas Joint Venture, Revolving Cr	11,263
6,402,380	(a) (c) (d)	Lake at Las Vegas Joint Venture, Term Loan, 1	122,714
1,765,105	(d)	Lake at Las Vegas Joint Venture, Debtor in Po	617,787
750,000		Universal City Development Partners, Ltd., Te	756,563
			4,009,141
		Education Services - 0.6%	
1,795,443		Bright Horizons Family Solutions, Inc., Tranc	1,804,420
		Specialized Consumer Services - 1.7%	
1,017,765		Adesa, Inc., Initial Term Loan, 2.98%, 10/21/	985,960
165,170		Travelport LLC, Incremental Term Loan C, 10.5	166,340
3,910,021		Web Service Co., LLC, Term Loan, 7.0%, 8/28/1	3,912,465
			5,064,765
		Total Consumer Services	15,945,393
		Media - 26.9%	
		Advertising - 0.5%	
1,475,380		Lamar Media Corp., Incremental Term Loan Seri	1,471,692
		Broadcasting - 9.8%	
2,652,051		Discovery Communications Holding, LLC, Term L	2,676,914
AUD 16,466,037		SMG H5 Pty, Ltd., Facility Term Loan A, 5.731	13,363,015
11,115,966		Univision Communications, Inc., Initial Term	9,620,524
3,769,895	(a) (c)	Young Broadcasting, Inc., Term Loan, 4.75%, 1	3,107,023
			28,767,476
		Cable & Satellite - 12.0%	
19,591,675	(a) (c) (d)	Broadstripe LLC, First Lien Term Loan, 9.25%,	9,795,837
1,428,203	(a) (c) (d)	Broadstripe LLC, Revolver Credit Loan, 8.87%	714,102
9,731,809		Cequel Communications LLC, Term Loan, 2.249%	9,260,089
4,937,028		Charter Communications Operating LLC, New Ter	4,621,250
6,600,274		Knology, Inc., Term Loan, 2.479%, 6/30/12	6,402,266
4,863,250		WideOpenWest Finance LLC, First Lien Term Loa	4,506,613
			35,300,157
		Movies & Entertainment - 3.8%	
2,380,607		Alpha Topco, Ltd., Facility Term Loan B-1, 2.	2,140,761
1,608,032		Alpha Topco, Ltd., Facility Term Loan B-2, 2.	1,446,023
1,500,000		Carmike Cinemas, Inc., Initial Term Loan, 5.5	1,499,532
1,563,966		Lodgenet Entertainment Corp., Closing Date Te	1,457,616
7,734,045	(c)	Metro-Goldwyn-Mayer, Inc., Tranche B Term Loa	4,694,805
			11,238,737
		Publishing - 0.8%	
EURO935,574		Mediannuaire Holding, Term Loan B-2, 2.964%,	924,389
EURO935,574		Mediannuaire Holding, Term Loan C, 3.464%, 10	924,389
3,500,000	(c)	Penton Media Holdings, Inc., Second Lien Term	525,000
			2,373,778
		Total Media	79,151,840
		Retailing - 5.7%	

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	Distributors - 0.9%	
14,944,776	(a) (c) (d) Home Interiors & Gifts, Inc., Proof of Claims	2,615,336
	Catalog Retail - 0.2%	
554,615	QVC, Inc., Tranche 2-W Term Loan, 3.749%, 10/	555,295
	General Merchandise Stores - 2.3%	
2,841,135	Dollar General Corp., Tranche B-1 Term Loan,	2,763,990
4,268,478	Dollar General Corp., Tranche B-2 Term Loan,	4,120,682
		6,884,672
	Oil & Gas - 0.6%	
1,700,000	Pilot Travel Centers LLC, Term Loan B, 3.5%,	1,715,021
	Specialty Stores - 1.7%	
967,414	Sally Holdings LLC, Term Loan B, 2.48%, 11/16	953,076
4,180,100	Toys R Us - Delaware, Inc., Tranche B Term Lo	4,181,830
		5,134,906
	Total Retailing	16,905,230
	Food & Staples Retailing - 2.1%	
	Drug Retail - 0.5%	
1,400,000	Rite Aid Corp., Tranche 4 Term Loan, 9.5%, 6/	1,459,850
	Food Retail - 1.6%	
4,875,000	Pinnacle Foods Finance LLC, Term Loan, 2.979%	4,601,459
	Total Food & Staples Retailing	6,061,309
	Food, Beverage & Tobacco - 2.8%	
	Distillers & Vintners - 0.4%	
363,391	Constellation Brands, Inc., Extending Tranche	360,114
736,609	Constellation Brands, Inc., Non-Extending Tra	739,823
		1,099,937
	Agricultural Products - 0.5%	
1,500,000	Wm. Bolthouse Farms, Inc., First Lien Term Lo	1,503,124
	Packaged Foods & Meats - 1.9%	
992,347	Dean Foods Co., Tranche B Term Loan, 1.615% -	956,126
260,245	Dole Food Co., Inc., Credit-Linked Deposit Lo	260,245
309,108	Dole Food Co., Inc., Tranche B Term Loan, 8.0	309,108
220,588	Dole Food Co., Inc., Tranche B-1 Term Loan, 3	221,278
931,627	Dole, Ltd., Tranche C Term Loan, 8.0%, 4/12/1	931,627
529,412	Dole, Ltd., Tranche C-1 Term Loan, 3.25%, 2/1	531,066
2,540,730	Sturm Foods, Inc., Initial First Lien Term Lo	2,542,846
		5,752,296
	Total Food, Beverage & Tobacco	8,355,357
	Household & Personal Products - 4.7%	
	Household Products - 3.6%	
2,486,039	Central Garden & Pet Co., Tranche B Term Loan	2,365,466
1,700,000	JohnsonDiversey, Inc., Tranche B Dollar Term	1,717,000
1,400,000	Reynolds Group Holdings, Inc., U.S. Term Loan	1,413,825
4,125,841	(d) Spectrum Brands, Inc., Dollar Term Loan B, 8.	4,130,999
210,397	Spectrum Brands, Inc., LC Loan, 1.5%, 6/30/12	210,660
1,032,010	Yankee Candle Co., Inc., Term Loan, 2.23% - 2	994,599
		10,832,549
	Personal Products - 0.9%	
977,444	(a) Appleseed's Intermediate Holdings, Inc., Firs	464,286
2,500,000	Revlon Consumer Products Corp., Term Loan, 4.	2,474,805
		2,939,091
	Total Household & Personal Products	13,771,640

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	Health Care Equipment & Services - 12.2%	
	Health Care Equipment & Services - 1.4%	
714,286	Fenwal, Inc., First Lien Delayed Draw Term Lo	625,000
4,167,857	Fenwal, Inc., Initial First Lien Term Loan, 2	3,646,875
		4,271,875
	Health Care Supplies - 2.9%	
464,930	Bausch & Lomb, Inc., Delayed Draw Term Loan,	446,979
1,914,539	Bausch & Lomb, Inc., Parent Term Loan, 3.501%	1,840,617
2,823,229	Biomet, Inc., Dollar Term Loan, 3.229% - 3.25	2,741,901
150,564	CCS Medical, Inc., Debtor in Possession Term	150,564
5,163,713 (c)	CCS Medical, Inc., First Lien Term Loan, 4.35	3,472,597
		8,652,658
	Health Care Services - 3.2%	
750,000	Alliance HealthCare Services, Initial Term Lo	748,829
1,500,000	Butler Animal Health Supply LLC, Term Loan, 5	1,511,250
1,069,076	Fresenius SE, Tranche B-1 Term Loan, 6.75%, 9	1,079,099
2,923,664	LifeCare Holdings, Term Loan, 4.5%, 8/10/12	2,550,897
1,016,396 (d)	Medical Staffing Network, Inc., Second Lien T	533,608
1,920,000	RehabCare Group, Inc., Term Loan B, 6.0%, 11/	1,921,200
1,000,000	Rural/Metro Operating Co., LLC, Term Loan, 7.	1,003,125
		9,348,008
	Health Care Facilities - 4.0%	
56,563	CHS/ Community Health Systems, Inc., Delayed	52,971
1,106,643	CHS/ Community Health Systems, Inc., Term Loa	1,036,371
10,813,450	HCA, Inc., Tranche B-1 Term Loan, 2.501%, 11/	10,282,607
302,147	Psychiatric Solutions, Inc., Term Loan, 2.002	294,215
		11,666,164
	Managed Health Care - 0.7%	
899,355	Aveta, Inc., MMM Original Term Loan, 5.48%, 8	882,117
133,603	Aveta, Inc., NAMM New Term Loan, 5.48%, 8/22/	131,043
240,747	Aveta, Inc., NAMM Original Term Loan, 5.48%,	236,133
737,042	Aveta, Inc., PHMC Acquisition Term Loan, 5.48	722,915
		1,972,208
	Total Health Care Equipment & Services	35,910,913
	Pharmaceuticals & Biotechnology & Life Sciences - 5.5%	
	Biotechnology - 0.8%	
365,000	Warner Chilcott Co., Inc., Term Loan B-3, 5.7	365,937
722,034	Warner Chilcott Co., LLC, Term Loan A, 5.5%,	723,523
794,237	Warner Chilcott Co., LLC, Term Loan B-2, 5.75	795,454
361,017	Warner Chilcott Corp., Term Loan B-1, 5.75%,	361,570
		2,246,484
	Pharmaceuticals - 4.7%	
575,924	Fresenius SE, Tranche B-2 Term Loan, 6.75%, 9	581,323
305,135	Graceway Pharmaceuticals LLC, First Lien Term	219,697
2,000,000	Graceway Pharmaceuticals LLC, Mezzanine Loan,	350,000
12,844,551	Mylan, Inc., U.S. Tranche B Term Loan, 3.5% -	12,728,590
		13,879,610
	Total Pharmaceuticals & Biotechnology & Life	16,126,094
	Diversified Financials - 0.6%	
	Specialized Finance - 0.6%	
1,920,181	Collect Acquisition Corp., Advance Term Loan	1,907,781
	Consumer Finance - 0.0%	
6,809	Dollar Financial Corp., Canadian Borrower Ter	6,616
5,007	Dollar Financial Corp., Delayed Draw Term Loa	4,865
		11,481
	Total Diversified Financials	1,919,262
	Insurance - 1.7%	

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	Insurance Brokers - 1.7%	
847,875	HUB International, Ltd., Additional Term Loan	839,662
861,964	HUB International, Ltd., Delayed Draw Term Lo	795,432
3,125,933	HUB International, Ltd., Initial Term Loan, 2	2,884,652
498,750	USI Holdings Corp., New Term Loan Series C, 7	485,867
		5,005,613
	Multi-Line Insurance - 0.0%	
148,855	AMWINS Group, Inc., Initial Term Loan, 2.76%,	138,993
	Total Insurance	5,144,606
	Real Estate - 1.3%	
	Diversified Real Estate Investment Trust - 1.3%	
5,000,000	Spirit Finance Corp., Term Loan, 3.249%, 8/1/	3,925,000
	Total Real Estate	3,925,000
	Software & Services - 14.0%	
	IT Consulting & Other Services - 4.8%	
937,886	Activant Solutions, Inc., Term Loan, 2.25% -	896,854
4,534,884	Keane International, Inc., Closing Date Term	4,240,116
348,837	Keane International, Inc., Synthetic LC Loan,	326,163
4,937,500	SunGard Data Systems, Inc., Incremental Term	4,983,172
3,683,176	SunGard Data Systems, Inc., Tranche A U.S. Te	3,547,934
		13,994,239
	Data Processing & Outsourced Services - 1.4%	
2,020,899	DTN, Inc., Tranche C Term Loan, 5.227% - 7.0%	1,965,324
992,386	First Data Corp., Initial Tranche B-2 Term Lo	868,269
1,188,927	Lender Processing Services, Inc., Term Loan B	1,189,917
		4,023,510
	Application Software - 1.9%	
1,602,258	Nuance Communications, Inc., Term Loan, 2.23%	1,548,975
3,531,739	Serena Software, Inc., Term Loan, 2.257%, 3/1	3,306,591
931,279	Verint Systems, Inc., Term Loan, 3.48%, 5/25/	884,715
		5,740,281
	Systems Software - 5.9%	
1,250,000	Allen Systems Group, Inc., First Lien Term Lo	1,259,766
2,334,269	Applied Systems, Inc., Term Loan, 2.729%, 9/2	2,229,227
2,324,507	Infor Enterprise Solutions Holdings, Inc., De	2,174,867
2,925,000	Infor Enterprise Solutions Holdings, Inc., Do	2,654,437
4,455,304	Infor Enterprise Solutions Holdings, Inc., In	4,168,494
1,466,667	Infor Enterprise Solutions Holdings, Inc., Se	1,173,333
2,533,333	Infor Enterprise Solutions Holdings, Inc., Se	2,064,667
665,334	Macrovision Solutions Corp., Term Loan, 6.0%,	668,660
1,000,000	Vangent, Inc., Term Loan, 2.48% - 2.51%, 2/14	955,000
		17,348,451
	Total Software & Services	41,106,481
	Technology Hardware & Equipment - 3.3%	
	Communications Equipment - 0.8%	
868,732	CommScope, Inc., Term Loan B, 2.729% - 4.75%,	859,269
1,500,000	TowerCo Finance LLC, Term Loan, 6.0%, 11/24/1	1,515,000
		2,374,269
	Electronic Equipment & Instruments - 1.0%	
611,111	H3C Holdings, Ltd., Tranche B Term Loan, 3.63	592,778
1,151,542	Itron, Inc., Dollar Term Loan, 3.98%, 4/18/14	1,148,663
1,543,513	Scitor Corp., Term Loan, 4.48%, 9/26/14	1,366,009
		3,107,450
	Electronic Components - 0.4%	
36,285	Flextronics International, Ltd., A-1-B Delaye	34,440
1,154,601	Flextronics International, Ltd., A-3 Delayed	1,104,087
		1,138,527
	Electronic Manufacturing Services - 1.1%	
1,730,570	Baldor Electric Co., Term Loan, 5.25%, 1/31/1	1,741,040

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749,889	FCI USA, Inc., Facility Term Loan B-1, 3.617%	703,958
749,889	FCI USA, Inc., Facility Term Loan B-5-B, 3.61	703,958
		3,148,956
	Total Technology Hardware & Equipment	9,769,202
	Telecommunication Services - 11.0%	
	Alternative Carriers - 2.0%	
6,500,000	Level 3 Financing, Inc., Tranche A Term Loan, 5.881,148	
	Integrated Telecommunication Services - 6.6%	
EURO752,152	Amsterdamse Beheer-EN Consultingmaatschappij	997,503
EURO390,705	Amsterdamse Beheer-EN Consultingmaatschappij	518,153
EURO1,142,857	Amsterdamse Beheer-EN Consultingmaatschappij	1,515,657
EURO857,143	Amsterdamse Beheer-EN Consultingmaatschappij	1,136,742
EURO857,143	Amsterdamse Beheer-EN Consultingmaatschappij	1,136,742
1,000,000	Hargray Acquisition Co., Second Lien Term Loa	850,000
1,915,102	Integra Telecom Holdings, Inc., First Lien Te	1,923,481
3,983,117	Telesat Canada, U.S. Term I Loan, 3.24%, 10/3	3,891,362
342,116	Telesat Canada, U.S. Term II Loan, 3.24%, 10/	334,235
748,072	Time Warner Telecom Holdings, Inc., Term Loan	732,122
1,289,573	West Corp., Term Loan B-2, 2.604% - 2.624%, 1	1,249,475
EURO1,500,000	Wind Telecomunicazione S.p.A., Facility Term	1,986,108
EURO1,500,000	Wind Telecomunicazione S.p.A., Facility Term	1,986,108
1,177,887	Windstream Corp., Tranche B-2 Term Loan, 3.01	1,146,967
		19,404,655
	Wireless Telecommunication Services - 2.4%	
7,280,694	MetroPCS Wireless, Inc., Tranche B Term Loan,	7,041,035
	Total Telecommunication Services	32,326,838
	Utilities - 5.7%	
	Electric Utilities - 4.8%	
2,971,040 (h)	Bosque Power Co. LLC, Term Loan, 5.489%, 1/16	2,260,465
1,754,777	Coleto Creek Power, L.P., First Lien Syntheti	1,595,750
3,370,991	Coleto Creek Power, L.P., First Lien Term Loa	3,065,495
4,825,000	Coleto Creek Power, L.P., Second Lien Term Lo	3,956,500
881,057	(a) (d) (e) GBGH LLC, First Lien Term Loan, 4.0%, 6/9/13	411,013
282,485	(a) (d) (e) GBGH, LLC, Second Lien Term Loan, 12.0%, 6/9/	2,825
3,430,445	Texas Competitive Electric Holdings Co. LLC,	2,773,943
		14,065,991
	Independent Power Producers & Energy Traders - 0.9%	
1,978,502	Calpine Corp., First Priority Term Loan, 3.13	1,864,857
275,941	Mach Gen LLC, First Lien Synthetic LC Loan, 0	257,177
273,514	NRG Energy, Inc., Credit-Linked Deposit Loan,	264,951
465,537	NRG Energy, Inc., Term Loan, 1.981% - 2.001%,	450,963
		2,837,948
	Total Utilities	16,903,939
	TOTAL SENIOR SECURED FLOATING RATE LOAN INTERESTS	
	(Cost \$477,679,903)	412,315,711
	CLAIMS - 0.0% of Net Assets	
	Capital Goods - 0.0%	
	Airlines - 0.0%	
1,200,000	(a) (e) (i) Northwest Airlines, Inc., ALPA Claim-Escrow,	826
2,500,000	(a) (e) (i) Northwest Airlines, Inc., Bell Atlantic Claim	1,720
2,500,000	(a) (e) (i) Northwest Airlines, Inc., EDC Claim-Escrow, 5	1,720
2,130,600	(a) (e) (i) Northwest Airlines, Inc., Flight Attendant Cl	1,466
1,500,000	(a) (e) (i) Northwest Airlines, Inc., GE Claim-Escrow, 2.	1,032
1,264,500	(a) (e) (i) Northwest Airlines, Inc., IAM Claim-Escrow, 2	870
1,404,900	(a) (e) (i) Northwest Airlines, Inc., Retiree Claim-Escro	966
	Total Capital Goods	8,600
	TOTAL CLAIMS	
	(Cost \$0)	8,600

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		CORPORATE NOTES - 15.0% of Net Assets	
		Energy - 0.9%	
		Oil & Gas Exploration & Production - 0.9%	
2,500,000		Denbury Resources, Inc., 8.25%, 2/15/20	2,587,500
		Total Energy	2,587,500
		Materials - 0.8%	
		Paper Products - 0.8%	
1,750,000		Appleton Papers, Inc., 10.5%, 6/15/15 (144A)	1,618,750
600,000		Cellu Tissue Holdings, Inc., 11.5%, 6/1/14	664,500
		Total Materials	2,283,250
		Capital Goods - 1.2%	
		Aerospace & Defense - 0.8%	
550,000		DigitalGlobe, Inc., 10.5%, 5/1/14 (144A)	591,250
1,850,000		Spirit AeroSystems, Inc., 7.5%, 10/1/17 (144A)	1,831,500
		Total Capital Goods	2,422,750
		Construction & Farm Machinery & Heavy Trucks - 0.4%	
1,000,000		Manitowoc Co., Inc., 9.5%, 2/15/18	997,500
		Total Capital Goods	3,420,250
		Automobiles & Components - 0.9%	
		Auto Parts & Equipment - 0.1%	
127,932		Delphi International Holdings S.A.R.L, 12.0%,	127,932
		Tires & Rubber - 0.8%	
3,000,000 (b)		American Tire Distributors, Inc., 6.501%, 4/1	2,475,000
		Total Automobiles & Components	2,602,932
		Consumer Durables & Apparel - 0.3%	
		Housewares & Specialties - 0.3%	
1,000,000		Jarden Corp., 8.0%, 5/1/16	1,045,000
		Total Consumer Durables & Apparel	1,045,000
		Retailing - 0.6%	
		Catalog Retail - 0.6%	
1,825,000		QVC, Inc., 7.5%, 10/1/19 (144A)	1,847,813
		Total Retailing	1,847,813
		Pharmaceuticals & Biotechnology & Life Sciences - 9.1%	
		Biotechnology - 1.6%	
3,863,129 (a)		Fosamprenavir Pharma, 15.5%, 6/15/18 (144A)	3,554,079
2,884,444 (a) (b) (d)		Molecular Insight Pharmaceuticals, Inc., 9.23	1,298,000
		Total Pharmaceuticals & Biotechnology & Life Sciences	4,852,079
		Pharmaceuticals - 7.5%	
15,000,000 (a)		Azithromycin Royalty Sub LLC, 16.0%, 5/15/19	11,550,000
11,482,524 (a) (d)		Celtic Pharma Phinco B.V., 17.0%, 6/15/12 (14	6,889,514
840,000 (a)		Pharma V, 13.0%, 10/15/13 (144A)	806,400
639,101 (a) (b) (d)		Pharma VI, 5.501%, 10/15/14 (144A)	543,236
1,209,357 (a) (d)		Pharma X, 15.5%, 3/30/17 (144A)	1,027,953
1,500,000 (a) (d)		TCD Pharma, 16.0%, 4/15/24 (144A)	1,320,000
		Total Pharmaceuticals & Biotechnology & Life	22,137,103
		Total Pharmaceuticals & Biotechnology & Life	26,989,182
		Diversified Financials - 0.3%	
		Consumer Finance - 0.1%	
200,000		Capital One Financial Corp., 7.375%, 5/23/14	229,268
		Asset Management & Custody Banks - 0.2%	
530,000		Janus Capital Group, Inc., 6.25%, 6/15/12	531,000
		Total Diversified Financials	760,268

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		Insurance - 0.5%	
		Reinsurance - 0.5%	
250,000	(b)	Muteki, Ltd., 4.65%, 5/24/11 (144A)	244,625
500,000	(b)	Mystic Re, Ltd., 10.252%, 6/7/11 (144A)	511,750
600,000	(b)	Residential Reinsurance 2008, Ltd., 7.002%, 6	607,380
		Total Insurance	1,363,755
		Real Estate - 0.3%	
		Specialized Real Estate Investment Trusts - 0.3%	
750,000		Hospitality Properties Trust, 7.875%, 8/15/14	805,446
		Diversified Real Estate Activities - 0.0%	
150,000		WEA Finance LLC, 7.5%, 6/2/14 (144A)	169,413
		Total Real Estate	974,859
		Telecommunication Services - 0.1%	
		Integrated Telecommunication Services - 0.1%	
300,000		Frontier Communications Corp., 8.25%, 5/1/14	308,250
		Total Telecommunication Services	308,250
		TOTAL CORPORATE NOTES	
		(Cost \$53,497,823)	44,183,059
		COMMON STOCK - 4.2% of Net Assets	
		Energy - 0.0%	
		Oil & Gas Drilling - 0.0%	
138	(a) (e) (i)	TARH E&P Holdings GP, LLP Class A Membership	1
130,056	(a) (e) (i)	TARH E&P Holdings LP, Class A Partnership Int	1,301
		Total Energy	1,302
		Materials - 0.7%	
		Commodity Chemicals - 0.6%	
136,965	(i)	Georgia Gulf Corp.	1,954,490
		Diversified Chemicals - 0.1%	
20,650	(e) (i)	Panda Herford Ethanol LP	206,500
		Total Materials	2,160,990
		Transportation - 0.1%	
		Airlines - 0.0%	
4,866	(i)	Delta Airlines, Inc.	62,869
		Trucking - 0.1%	
12,887	(i)	SIRVA Worldwide, Inc.	193,305
		Total Transportation	256,174
		Automobiles & Components - 3.3%	
		Auto Parts & Equipment - 3.3%	
829	(i)	Delphi DIP Holdco LLP, Class B Subscription	9,813,287
		Total Automobiles & Components	9,813,287
		Media - 0.1%	
		Broadcasting - 0.1%	
5,325	(i)	Charter Communications, Inc.	158,419
		Total Media	158,419
		Utilities - 0.0%	
		Electric Utilities - 0.0%	
1,589	(e) (i)	GBGH, LLC Membership Interest	16
		Total Utilities	16
		TOTAL COMMON STOCK	

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total registration. At February 28, 2010, the value of these securities amounted to \$48,398,753 or 16.4% of net assets applicable to common shareowners.

(a) Indicates a security that has been deemed illiquid. The aggregate cost of illiquid securities is \$112,839,597. The aggregate value \$62,404,189 represents 21.2% of the total net assets applicable to common shareowners.

(b) Floating Rate Note. The rate shown is the coupon rate at February 28, 2010.

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

(d) Represents a pay in kind security.

(e) Security is valued using fair value methods (other than prices supplied by independent pricing services).

(f) Issuer in the process of reorganization.

(g) The company and agent bank are in the process of negotiating forbearance.

(h) On February 28, 2010, the security was not in default but defaulted after the period end.

(i) Non-income producing.

(j) At February 28, 2010, the net unrealized loss on investments based on cost for federal income tax purposes of \$553,114,688 was as follows:

Aggregate gross unrealized gain for all investments in which there is an excess of value over tax \$14,641,075

Aggregate gross unrealized loss for all investments in which there is an excess of tax cost over (88,630,787)

Net unrealized loss (\$73,989,712)

on For financial reporting purposes net unrealized loss investments was \$73,627,572 and cost of investments aggregated \$552,752,548.

Glossary of Terms:
LC- Letter of Credit

Principal amounts are denominated in U.S. dollars unless otherwise noted.
AUD - Australian Dollar
EURO - Euro

unfunded For the period ended February 28, 2010, the Trust had loan commitment of \$2,340,721 which would be extended at the option of the borrower, pursuant to the following loan agreements:

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Unfunded

Loan	Borrower	Commitment
	Delphi Holdings LLP, Tranche A-1 Loan	\$32,763
	Delphi Holdings LLP, Tranche A-2 Loan	76,448
	Delphi Holdings LLP, Tranche B-1A Loan	331,844
	Delphi Holdings LLP, Tranche B-2A Loan	774,303
	SIRVA Worldwide, Inc., Revolving Credit Loan	1,125,363
		\$2,340,721

Trust's
broad
priority

Various inputs are used in determining the value of the investments. These inputs are summarized in the three levels listed below.

Highest priority is given to Level 1 inputs and lowest is given to Level 3.

Level 1 - quoted prices in active markets for identical securities

Level 2 - other significant observable inputs (including quoted

prepayment speeds, prices for similar securities, interest rates, credit risk, etc.)

Level 3 - significant unobservable inputs (including the Trust's own assumptions in determining fair value of investments)

February

The following is a summary of the inputs used as of 28, 2010, in valuing the Trust's assets:

	Level 1	Level 2	Level 3	Total
Collateralized loan obligation	\$0	\$0	\$4,627,018	\$4,627,018
Senior flt rate loan (oil&gas drilling)	0	5,134,469	1,295,234	6,429,703
Senior flt rate loan (oil&gas exploration)	0	2,512,093	0	2,512,093
Senior flt rate loan (cable & satellite)	0	24,790,218	10,509,939	35,300,157
Senior flt rate loan (electric utilities)	0	13,652,153	413,838	14,065,991
Senior flt rate loan (other industries)	0	354,007,767	0	54,007,767
Claims	0	0	8,600	8,600
Corporate notes (biotech)	0	0	4,852,079	4,852,079
Corporate notes (pharmaceuticals)	0	0	22,137,103	22,137,103
Corporate notes (other industries)	0	17,193,877	0	17,193,877
Common stock (oil & gas drilling)	0	0	1,302	1,302
Common stock (diversified chemicals)	0	0	206,500	206,500
Common stock (trucking)	0	193,305	0	193,305
Common stock (auto parts & equip)	0	9,813,287	0	9,813,287
Common stock (electric utilities)	0	0	16	16
Common stock (other industries)	2,175,778	0	0	2,175,778
Liquidating trust	0	0	0	0
Warrants	0	400	0	400
Temporary cash investments	0	5,600,000	0	5,600,000
Total	\$2,175,778	\$432,897,569	\$44,051,629	\$479,124,976

Other Financial Instruments	\$0	(\$453,798)	\$0	(\$453,798)
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The following is a reconciliation of assets valued using significant unobservable inputs (level 3):

Change in Net Transfers

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	Balance as unrealized purchase in/(out)Balance as of 11/30/09 app/(dep) (sales) Level 3 of 2/28/10			
Collateralized loan oblig	\$4,485,650	\$142,814	(\$1,446)	\$0 \$4,627,018
Senior flt rate loan(oil/gas drill)	1,275,323	(605)	20,516	0 1,295,234
Senior flt rate loan(oil&gas expl)	0	0	0	0 0
Senior flt rate loan(cable & sat)	10,509,939	0	0	0 10,509,939
Senior flt rate loan(electric utl)	413,755	(8,210)	8,293	0 413,838
Claims	8,600	0	0	0 8,600
Corporate notes (biotech)	6,001,042	(1,005,230)	(143,733)	0 4,852,079
Corporate notes (pharma)	21,965,041	(332,445)	504,507	0 22,137,103
Common stock (oil/gas drill)	1,302	0	0	0 1,302
Common stock (diversified chem)	206,500	0	0	0 206,500
Common stock (broadcasting)	206,250	0	0	(206,250) 0
Common stock (electric utl)	16	0	0	0 16
Liquidating trust	0	0	0	0 0
Ending balance	45,073,418	(\$1,203,676)	\$388,137 (\$206,250)	\$44,051,629

*Transfers are calculated beginning of period.

ITEM 2. CONTROLS AND PROCEDURES.

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

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

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

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

ITEM 3. EXHIBITS.

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

Filed herewith.

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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 April 29, 2010

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 April 29, 2010

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

Date April 29, 2010

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