Pioneer Floating Rate Trust Form N-Q October 26, 2016

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

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

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)

Terrence J. Cullen, 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, 2016

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 270.30b1-5). 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.

File the schedules as of the close of the reporting period as set forth in ss. 210.12-12 12-14 of Regulation S-X [17 CFR 210.12-12 12-14]. The

schedules need not be audited.

Pioneer Floating Rate Trust

NQ | August 31, 2016

Ticker Symbol: PHD

Principal Amount USD (\$)		Value
	SENIOR SECURED FLOATING	
	RATE LOAN INTERESTS - 132.4%	
	of Net Assets*(a)	
	AUTOMOBILES & COMPONENTS -	
	6.8%	
0.027.207	Auto Parts & Equipment - 5.6%	
2,837,307	Allison Transmission, Inc., Term Loan	
	B-3, 3.5%, 8/23/19	\$ 2,848,109
2,370,000	BBB Industries US Holdings, Inc., First	
	Lien Initial Term Loan, 6.0%, 11/3/21	2,358,892
1,882,029	Cooper Standard Intermediate Holdco 2	
	LLC, Term Loan, 4.0%, 4/4/21	1,892,028
1,011,744	Electrical Components International,	
	Inc., Term Loan B, 5.75%, 5/28/21	1,012,376
1,680,630	Federal-Mogul Corp., Tranche C Term	
	Loan, 4.75%, 4/15/21	1,606,753
910,245	Gates Global LLC, Initial Dollar Term	
	Loan, 4.25%, 7/6/21	897,540
1,579,953	Key Safety Systems, Inc., Initial Term	
	Loan, 5.5%, 8/29/21	1,583,903
1,637,910	MPG Holdco I, Inc., Initial Term Loan,	•
,	3.75%, 10/20/21	1,641,749

1,345,315 2,045,816	TI Group Automotive Systems LLC, Initial US Term Loan, 4.5%, 6/30/22 Tower Automotive Holdings USA LLC, Refinancing Term Loan, 4.0%,	1,350,360	
	4/23/20	2,041,980 \$17,233,690	
1,885,645	Automobile Manufacturers - 0.7% Chrysler Group LLC, Term Loan B, 3.5%, 5/24/17	\$ 1,891,370	
466,667	Visteon Corp., Initial Term Loan, 3.5%, 4/9/21	466,667	
1,500,000	Tires & Rubber - 0.5% Goodyear Tire & Rubber Co., Second Lien Term Loan, 3.75%, 4/30/19 Total Automobiles & Components	\$ 2,358,037 \$ 1,506,831 \$21,098,558	
927,336	BANKS - 0.3% Thrifts & Mortgage Finance - 0.3% Ocwen Loan Servicing, Initial Term Loan, 5.5%, 2/15/18 Total Banks	\$ 925,018 \$ 925,018	
1,323,822	CAPITAL GOODS - 13.3% Aerospace & Defense - 4.6% Accudyne Industries Borrower SCA/Accudyne Industries LLC, Refinancing Term Loan, 4.0%,		
1,237,500	12/13/19 Allion Science and Technology Corp., First Lien Term Loan, 5.5%, 8/19/21	\$ 1,181,511 1,190,063	
1,571,455	BE Aerospace, Inc., Term Loan, 3.75%, 12/16/21	1,190,063	
1,349,806	DAE Aviation Holdings, Inc., Initial Term Loan, 5.25%, 7/7/22	1,354,024	
1,982,128	Digitalglobe, Inc., Term Loan, 4.75%, 1/31/20	1,999,041	
1,500,000 246,899	DynCorp International, Inc., Term Loan B2, 7.75%, 7/7/20 IAP Worldwide Services, Inc., First	1,500,782	
1,852,500	Lien Term Loan, 8.0%, 7/18/19 Turbocombustor Technology, Inc.,	224,678	
1,486,791	Initial Term Loan, 5.5%, 12/2/20 Vencore, Inc. (fka SI Organization,	1,593,150	
1,797,017	Inc.), First Lien Initial Term Loan, 5.75%, 11/23/19 WP CPP Holdings LLC, First Lien	1,490,199	
334,900	Term B-3 Loan, 4.5%, 12/28/19 WP CPP Holdings LLC, Second Lien	1,737,490	
JJ <del>1</del> ,7UU	Term Loan B-1, 8.75%, 4/30/21	303,084 \$14,161,518	

1 160 000	Building Products - 2.5%		
1,162,088	Armstrong World Industries, Inc., Term Loan B, 4.0%, 3/31/23	\$ 1,165,477	
1,496,645	Builders FirstSource, Inc., Term Loan		
328,264	B, 4.75%, 7/31/22 NCI Building Systems, Inc., Tranche B	1,503,193	
	Term Loan, 5.75%, 6/24/19	328,726	
1,472,673	Quikrete Holdings, Inc., Initial First Lien Loan, 4.0%, 9/28/20	1,479,730	
1,692,900	Summit Materials LLC, Restatement	-, ,	
	Effective Date Term Loan, 4.0%, 7/18/22	1,698,984	
1,445,096	Unifrax Holding Co., New Term B	1,070,701	
	Dollar Loan, 4.25%, 11/28/18	1,426,355 \$ 7,602,465	
	Construction Machinery & Heavy	Ψ 7,002,403	
441,558	Trucks - 1.5% Doosan Infracore International, Inc.		
441,330	(Doosan Holdings Europe, Ltd.),		
	Tranche B Term Loan, 4.5%, 5/28/21	\$ 444,307	
585,940	Engility Corp. (fka TASC, Inc.), Term B2 Loan, 5.75%, 8/14/23	591,250	
1,055,769	Manitowoc Co., Inc., Term B Loan,	•	
1,607,850	5.75%, 3/3/23 Navistar, Inc., Tranche B Term Loan,	1,070,933	
1,007,030	6.5%, 8/7/20	1,523,438	
840,956	Terex Corp., US Term Loan, 3.5%, 8/13/21	837,803	
	0/13/21	\$ 4,467,731	
	Electrical Components & Equipment -		
1,961,122	1.7% Pelican Products, Inc., First Lien Term		
505.041	Loan, 5.25%, 4/10/20	\$ 1,926,803	
585,841	Southwire Company LLC, Initial Term Loan, 3.0%, 2/10/21	581,691	
1,290,128	WireCo WorldGroup, Inc., Term Loan	•	
1,554,807	B, 0.0%, 7/21/23 WireCo WorldGroup, Inc., Term Loan,	1,296,983	
1,00 1,007	6.0%, 2/15/17	1,563,068	
Principal		\$ 5,368,545	
Amount			
USD (\$)	1.1.1.1.0.1	Value	
992,907	Industrial Conglomerates - 0.9% Filtration Group Corp., First Lien Term		
	Loan, 4.25%, 11/20/20	\$ 993,031	
429,508	Filtration Group Corp., Second Lien Initial Term Loan, 8.25%, 11/22/21	424,878	
167,494	Kleopatra Holdings 2 SCA, Initial	,	
	German Borrower Dollar Term Loan, 5.0%, 4/28/20	168,680	
	J.0 70, TI 201 20	100,000	

391,935	Kleopatra Holdings 2 SCA, Initial US Borrower Dollar Term Loan, 5.0%,		
927,161	4/28/20 Milacron LLC, Term Loan, 4.25%, 9/28/20	394,711	
<i>721</i> ,101		931,508 \$ 2,912,808	
870,533	Industrial Machinery - 1.5% Gardner Denver, Inc., Initial Dollar Term Loan, 4.25%, 7/30/20	\$ 827,732	
1,970,000	Mueller Water Products, Inc., Initial Term Loan, 4.0%, 11/24/21	1,981,491	
1,736,875	NN, Inc., Initial Term Loan, 5.75%, 10/19/22	1,733,257	
	Trading Companies & Distributors - 0.6%	\$ 4,542,480	
1,157,114	AWAS Finance Luxembourg 2012 SA, Term Loan, 3.5%, 7/16/18	\$ 1,163,985	
650,124	WESCO Distribution, Inc., Tranche B-1 Loan, 3.75%, 12/12/19	652,155	
	Total Capital Goods	\$ 1,816,140 \$40,871,687	
	COMMERCIAL & PROFESSIONAL SERVICES - 6.1%		
771,425	Diversified Support Services - 1.8% DH Publishing LP, Term B-3 Loan, 4.0%, 8/19/22	\$ 772,954	
1,059,539	InfoGroup, Inc., Term Loan B, 7.0%, 5/28/18	1,044,970	
699,120	KAR Auction Services, Inc., Tranche B-2 Term Loan, 3.938%, 3/11/21	701,888	
534,945	Language Line LLC, First Lien Initial Term Loan, 6.5%, 7/7/21		
1,497,916	Language Line LLC, Second Lien	536,171	
937,500	Initial Term Loan, 10.75%, 7/7/22 Ryan LLC, Tranche B Term Loan,	1,501,661	
	6.75%, 8/7/20	923,437 \$ 5,481,081	
	Environmental & Facilities Services - 2.5%		
566,079	ADS Waste Holdings, Inc., Initial Tranche B-2 Term Loan, 3.75%,		
500,000	10/9/19 Infiltrator Systems Integrated LLC,	\$ 565,725	
	Second Lien Term Loan, 9.75%, 5/26/23	498,750	
975,000	Safway Group Holding LLC, Initial Term Loan, 5.75%, 8/21/23	978,656	
856,901	US Ecology, Inc., Term Loan, 3.75%, 6/17/21	861,185	

735,688	Waste Industries USA, Inc., Term B		
	Loan, 3.5%, 2/27/20	738,332	
608,416	Wastequip LLC, Term Loan, 5.5%,		
•	8/9/19	608,797	
1,741,802	WCA Waste Systems, Inc., Term Loan	200,,,,	
,- ,	B, 0.0%, 8/12/23	1,742,347	
471,743	Wheelabrator Technologies, Inc., First	-,.	,
1,1,,13	Lien Term B Loan, 5.0%, 12/17/21	461,522	
21,073	Wheelabrator Technologies, Inc., First	101,522	
21,073	Lien Term C Loan, 5.0%, 12/17/21	20,616	
1,500,000	Wheelabrator Technologies, Inc.,	20,010	
1,500,000	Second Lien Term B Loan, 8.25%,		
	12/19/22	1 // 1	19 000
	12/1//22	1,419,000 \$ 7,894,930	
	Human Resource & Employment		
	Services - 0.2%		
501 001			
584,881	On Assignment, Inc., Tranche B-1	¢	506 242
	Term Loan, 3.5%, 6/3/22	\$	586,343
(50,000	Office Services & Supplies - 0.2%		
650,000	West Corp., Term B-12 Loan, 3.75%,	Φ.	652.025
	6/17/23	\$	652,925
1=6060	Security & Alarm Services - 1.4%		
176,968	Garda Security, Term B Delayed Draw		
	Loan, 5.5%, 11/6/20	\$	174,756
1,399,067	Garda Security, Term B Loan, 5.5%,		
	11/6/20	1,38	31,578
1,154,689	GEO Group, Inc., Term Loan, 3.25%,		
	4/3/20	1,108,502	
1,114,450	Protection One, Inc., First Lien Term B	1,126,987	
	Loan, 4.75%, 7/1/21		
500,000	Protection One, Inc., First Lien Term		
	B-1 Loan, 4.75%, 5/2/22	506,016	
		\$	4,297,839