Pioneer Floating Rate Trust Form N-Q April 22, 2005

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 811-09223

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, 2005

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.

3,000,000 NR

1,000,000 NR 3,750,000 B

5,000,000 B+

1,940,000 NR 1,000,000 B 1,980,000 B+

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Pioneer Floating Rate Trust
     SCHEDULE OF INVESTMENTS 2/28/05 (unaudited)
    Principal
    Amount
                   S&P
                         Moody's
     USD ($)
                   Rating Rating
                                SENIOR SECURED FLOATING RATE LOAN INTERESTS - 102.4% of Net As
                                Aerospace & Defense - 4.5%
         3,500,000 B-
                            B2 American Airlines, Inc., Term, 12/17/10
             520,67 B-
                            B3 DeCrane Aircraft Holdings, Inc., Term B, 6/30/08
         2,628,366 B-
                            B3 DeCrane Aircraft Holdings, Inc., Term D, 6/30/08
                           B2 DynCorp International LLC (DiFinance), Term, 2/11/11
         3,000,000 B+
        3,000,000 B B1 Northwest Airlines Corp., Term B, 11/23/10
4,980,875 NR Ba3 United Airlines, Inc., DIP, Tranche B, 9/30/05
3,000,000 B+ Ba3 Vought Aircraft Industries, Inc., Tranche B Letter of Credit Dep
         3,000,000 B
                          B1 Northwest Airlines Corp., Term B, 11/23/10
                                Broadcasting - 1.1%
         2,500,000 B
                          B2 Enterprise NewsMedia, LLC, Term, 6/30/12
             990,00 NR
                          B1 NEP Supershooters, L.P., First Lien Term A, 2/3/11
          1,500,000 NR
                          NR NEP Supershooters, L.P., First Lien Term B, 1/31/11
                                Cable - 11.9%
         3,000,000 NR
                          Caa Cebridge Connections, Inc., Second Lien Term, 2/23/10
                            NR Century Cable Holdings, LLC, Discretionary Term, 12/31/09
         6,500,000 NR
         2,000,000 NR
                            NR Century Cable Holdings, LLC, Term, 6/30/09
        13,950,000 CCC+ B2 Charter Communications Operating, LLC, Term B, 4/7/11
                         NR Kabel NRW GmbH & Co. KG, Elevated, 10/1/06
         6,000,000 NR
EURO
                            NR Kabel NRW GmbH & Co. KG, Non-Elevated, 10/1/06
EURO
         3,000,000 NR
                           B1 NTL Investment Holdings, Ltd., Sub-Tranche B2, 4/14/12
         4,000,000 B+
         5,000,000 NR
                            B3 Olympus Cable Holdings, LLC, Term A, 6/30/10
         2,833,333 BB-
2,166,667 BB-
                            B1 Telewest Communications Networks, Ltd., Term B, 11/30/12
                                Telewest Communications Networks, Ltd., Term C, 11/30/13
                           В1
         4,455,000 CCC+
                            B2 WideOpenWest Finance, LLC, Term B, 12/22/10
                                Chemicals - 2.0%
         3,233,572 B+
                          B1 Celanese Holdings, LLC, Term B (Dollar TL), 4/6/11
         2,000,000 B
                           B2 Huntsman, LLC, Term B, 3/31/10
         2,000,000 BB
                           Ba2 Mosaic Co., Term B, 2/21/12
         2,000,000 B+
                            B1 PQ Corp. (Niagara Acquisition, Inc.), Term, 2/11/12
                                Consumer - Durables - 0.5%
          1,500,000 B+
                          B1 Desa, LLC, Term, 11/26/11
          1,000,000 BB-
                           Ba3 National Bedding Co., Term B, 8/31/08
                                Consumer - Non-Durables - 3.8%
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B2 Camelbak Products, LLC, First Lien Term, 8/4/11 B3 Camelbak Products, LLC, Second Lien Term, 2/4/12

B1 Jarden Corp., reim, 1/2/12 B1 Josten IH Corp., Term C, 10/4/11 B3 MD Beauty, Inc., Second Lien Term, 2/18/13 B1 Solo Cup Co., Term, 2/27/11

B1 Jarden Corp., Term, 1/24/12

B3 CEI Holdings, Inc. (Cosmetic Essence), First Lien Term, 12/3/10

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Diversified Media - 3.1%
       2,000,000 B
                                    B1 Network Communications, Inc., Term B, 6/30/11
      4,000,000 BB- Ba3 Regal Cinemas Corp., Term, 11/10/10
2,818,354 BB Ba3 RH Donnelley, Inc., Term A-3, 12/31/09
3,222,784 B- B1 Six Flags Theme Parks, Inc., Term B, 6/30/09
2,500,000 B- B3 Weekly Reader Corp., Second Lien Term, 3/23,
                                      B3 Weekly Reader Corp., Second Lien Term, 3/23/09
                                             Energy - 4.8%
       2,000,000 B
                                    B2 Complete Energy Services, Inc., Term B, 2/8/12
       5,000,000 BB- NR Ferrell Companies, Inc., Term, 12/17/11
       6,000,000 BBB+ Ba3 Mainline, L.P., Term, 12/17/11
                                   B1 NSG Holdings II, LLC, Initial Term, 12/13/11
B1 Regency Gas Services, LLC, Term, 6/1/10
       3,000,000 NR
       2,000,000 B+
       4,000,000 BB- Ba2 Universal Compression, Inc., Term B, 2/15/12
Pioneer Floating Rate Trust
SCHEDULE OF INVESTMENTS 2/28/05 (continued) (unaudited)
Principal
Amount
                       S&P
                                     Moody's
USD ($)
                     Rating Rating
                                              Food & Drug - 0.4%
       2,000,000 BB- Ba3 Herbalife International, Inc., Term, 12/21/10
                                              Food & Tobacco - 5.2%
       3,000,000 B
                                    B2 Captain D's, LLC, First Lien Term, 12/27/10
       2,000,000 B
                                    B3 Captain D's, LLC, Second Lien Term, 6/27/11
      2,000,000 B

4,000,000 B+

B1 Carrols Corp., Term B, 12/31/10

3,767,778 BB

1,000,000 BB-

2,000,000 BB-

B3 Del Monte Corp., Term B, 2/8/12

2,000,000 BB-

B2 Landry's Restaurants, Inc., Term, 12/28/10

997,46 B+

B3 Merisant Co., Term B, 1/11/10

5,471,275 B+

B1 Pinnacle Foods Holding Corp., Term, 11/25/10

2,000,000 B

NR Real Mex Restaurants, Inc., Term, 12/31/08
                                           Forest Products - 2.5%
      2,000,000 BB Ba3Boise Cascade Holdings, LLC, Term B, 10/28/11
2,500,000 B B2 Graham Packaging Co., L.P., Term B, 10/7/11
349,32 B+ Ba3Smurfit Stone Container, Deposit Funded, 11/1/10
2,791,696 B+ Ba3Smurfit Stone Container, Term B, 11/1/11
858,98 B+ Ba3Smurfit Stone Container, Term C, 11/1/11
3,000,000 B B2 U.S. Can Corp., Term B, 1/10/10
       3,000,000 B
                                      B2 U.S. Can Corp., Term B, 1/10/10
                                              Gaming & Leisure - 6.9%
      4,000,000 B Ba3 CNL Hospitality Properties, Inc., Term, 10/13/06 1,000,000 B+ B1 Herbst Gaming, Inc., Term, 1/31/11 3,000,000 BB- Ba2 Isle of Capri Casinos, Inc., Term, 2/4/11
         4,814,81 B+
                                    B1 Knowledge Learning Corp., Term, 1/7/12
       4,942,674 B-
                                    NR OpBiz, LLC, Term A, 8/31/10
                   11 B-
                                    NR OpBiz, LLC, Term B, 8/31/10
      11 B- NR OpBiz, LLC, Term B, 8/31/10

1,259,259 B B1 Playpower, Inc., Dollar Term, 12/18/09

4,000,000 NR Ba3 Universal City Development Partners, Ltd., Term, 6/9/11

2,000,000 B- B1 Wyndham International, Inc., IRL Tranche II, 6/30/06

4,000,000 B- B1 Wyndham International, Inc., Term I, 6/30/06

3,000,000 B+ B2 Wynn Las Vegas, LLC, Term, 12/14/11
                                              Healthcare - 5.1%
                               B1 Aircast, Inc., First Lien Term, 12/7/10
B1 Alliance Imaging, Inc., Term C1, 12/29/11
B1 Alpharma Operating Corp., Term A, 10/5/07
       2,250,000 B
       4,000,000 B+
       2,400,529 B+
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B2 AMR HoldCo, Inc. EmCare HoldCo, Inc., Term, 2/10/12
3,000,000 B+
5,000,000 B
                   Caa FHC Health Systems, Inc., Third Lien Term, 2/9/11
1,059,222 B
                   B2 Hanger Orthopedic Group, Inc., Term B, 9/30/09
2,000,000 BB
                 B1 Healthcare Partners, Ltd., Term, 3/2/11
2,000,000 B B1 Insight Health Services Corp., Term B, 10/17/08
2,000,000 B+ B2 SFBC International, Inc., Term, 12/22/10
                       Housing - 9.3%
4,000,000 B+
                   B2 Associated Materials, Inc., Term, 8/29/10
4,000,000 B
                   B1 Atrium Companies, Inc., Term, 12/28/11
3,000,000 B+
                   B1 Builders FirstSource, Inc., Term, 8/11/11
7,000,000 BBB-
                   Ba2 General Growth Properties, Inc., Term B, 11/12/08
4,000,000 B+
                 B1 Headwaters, Inc., Term B, 4/30/11
3,792,500 B
                  B1 Lake at Las Vegas Joint Venture, First Lien Term, 11/1/09
6,000,000 B
                   B2 LNR Property Corp., Term B, 2/3/08
2,500,000 B+
                   B3 Propex Fabrics, Inc., Term, 12/31/11
5,000,000 NR NR TWLDC Holdigns, L.P., Mezzanine Loan, 11/30/07
4,000,000 BB- Ba3 Woodlands Commercial Properties Co., L.P., Bridge, 8/30/05
                        Information Technology - 4.0%
5,000,000 B
                   B1 AMKOR Technology, Inc., Second Lien Term, 10/27/10
4,000,000 B
                   Caa Corel Corp., Second Lien Term, 8/15/10
4,900,924 B
                   B3 ON Semiconductor Corp., Term G, 12/15/11
    480,00 B+
                 B3 Verifone, Second Lien Term, 12/31/11
4,000,000 B
                  B2 Vertafore, First Lien Term, 12/22/10
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Pioneer Floating Rate Trust

4,883,853 B+

SCHEDULE OF INVESTMENTS 2/28/05 (continued) (unaudited)

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Principal
Amount
             S&P
                     Moody's
USD ($)
             Rating Rating
                            Manufacturing - 2.5%
                      B2 Maxim Crane Works, L.P., First Lien Term, 1/28/10
    3,000,000 B+
                      B3 Maxim Crane Works, L.P., Second Lien Term, 1/28/12
     1,000,000 B+
                       B2 Mueller Group, Inc., Initial Term, 4/23/11
    4,000,000 B+
                       NR Norwesco, Inc., Term A, 12/31/09
      1,221,09 NR
     1,559,272 NR
                       NR Norwesco, Inc., Term B, 12/31/10
        730,90 NR
                       NR Norwesco, Inc., Term C, 6/30/11
                           Metals & Minerals - 3.6%
    4,620,694 B
                      B3 CII Carbon, LLC, Term, 6/25/08
    3,500,000 B+
                       B1 International Mill Service, Inc., First Lien Term C, 12/31/10
    3,500,000 B
                        B3 Murray Energy Corp., Term B, 1/28/10
     1,826,923 BB- Ba2 Novelis, Inc., Canadian Term, 1/7/12
     3,173,077 BB-
                      Ba2 Novelis, Inc., U.S. Term, 1/7/12
                            Retail - 4.5%
    7,000,000 BB
                       Ba2 Blockbuster, Inc., Term B, 8/20/11
    5,000,000 B+
                        B1 Dollarama Group, L.P., Term B, 11/18/11
    5,000,000 B+
                        B1 Harbor Freight Tools USA, Inc., Term, 7/15/10
    3,968,254 B-
                        B3 Home Interiors & Gifts, Inc., Initial Term, 3/31/11
                            Service - 2.4%
                      B1 Alliance Laundry Systems, LLC, Term, 1/27/12
    3,000,000 B
      1,013,55 BB B1 Allied Waste North America, Inc., Term B, 1/15/10 981, BB B1 Allied Waste North America, Inc., Term C, 1/15/10 1,500,000 BB B1 IESI Corp., Term, 1/21/12 NR NEFF Rental, Inc., Initial Term, 5/1/08
     1,500,000 BB
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Telecommunications - 10.8%
               5,000,000 B+
                                            B1 Alaska Communications Systems Holdings, Inc., Term, 2/1/12
               4,000,000 B-
                                       B1 Cricket Communications, Inc., Term B, 1/10/11
B1 Fairpoint Communications, Inc., Term B, 2/8/12
               4,500,000 B+
              2,500,000 BB- Ba3 Iowa Telecommunications Services, Inc., Term B, 11/23/11 5,500,000 NR NR Millennium Digital Media Systems, LLC, Term C, 10/31/08 5,000,000 BB B1 PanAmSat Corp., Term B-1, 8/20/11 1,000,000 B- B3 Primus Telecommunications Holding, Inc., Term, 2/18/11
               4,000,000 CCC- B3 RCN Corp., Term, 12/21/11
                                         B1 United Online, Inc., Term, 12/13/08
               3,500,000 B
               6,500,000 B+
                                            Ba3 Valor Telecommunications Enterprises, LLC, Term B, 2/14/12
               6,500,000 B+ Ba3 Valor Telecommunications Enterprises, LLC, Term B, 2/1-5,000,000 NR Ba3 WestCom Corp., Term B, 12/17/10
4,000,000 B+ Caa WilTel Communications, LLC, Second Lien Term, 12/31/10
              Transportation - 4.8%

3,000,000 BB- B2 Affinia Group, Inc., Term B, 11/30/11

5,000,000 BB- B1 Exide Global Holding Netherlands C.V., European Borrower Term, 5

392,1 BB- Ba2 Federal-Mogul Corp., Letter of Credit, 12/9/05

3,607,843 BB- B1 Federal-Mogul Corp., Term, 12/9/11

2,500,000 B+ B1 Goodyear Tire & Rubber Co., Term B, 3/31/06

4,000,000 BB- B2 Key Plastics LLC/Key Safety Systems, Inc., Term C, 6/29/11

1,988,16 B- Caa Quality Distribution, Inc., Term, 11/13/09
EURO
                                                      Utility - 6.4%
               4,000,000 B
                                           B1 Basic Energy Services, Term B, 10/3/09
               2,000,000 B-
                                            B3 El Paso Corp., Term, 11/23/09
              4,419,12 B+ B2 LSP Kendall Energy, LLC, Project, 11/22/06
1,743,442 NR Ba3 Magellan Midstream Holdings, Term, 12/10/11
1,750,000 B+ Ba3 NRG Energy, Inc., Credit Linked Deposit, 12/24/11
2,250,000 B+ Ba3 NRG Energy, Inc., Term, 12/24/11
2,500,000 BB- NR Ouachita Power, LLC, Term, 8/17/07
2,250,000 BB- B1 Pike Electric, Inc., Term C, 12/10/12
5,500,000 BB- B1 Reliant Energy, Inc., Term, 4/30/10
3,500,000 BB- Ba2 Texas Genco, LLC, Initial Term, 12/14/11
                                                      Wireless Communication - 2.3%
                                            B2 Centennial Cellular Operating Co., Term, 2/9/11
                1,994,962 B-
               7,500,000 B-
                 1,000,000 B
                                               B3 Ntelos, Inc., Second Lien Term, 2/24/12
                                               B2 Triton PCS Holdings, Inc., Term, 11/18/09
                                                      TOTAL SENIOR SECURED FLOATING RATE LOAN INTERESTS
                                                     (Cost $477,333,271) (a)
        Pioneer Floating Rate Trust
        SCHEDULE OF INVESTMENTS 2/28/05 (continued) (unaudited)
        Principal
                             S&P Moody's
        Amount
        USD ($)
                             Rating Rating
                                                      CORPORATE NOTES - 0.8% of Net Assets
                                                      Broadcasting - 0.2%
                 1,000 (a) B1
                                            CCC Paxson Communications Corp., 5.41%, 1/15/10 (144A)
                                                      Glass & Plastic Packaging - 0.6%
               2,500, (a) B+
                                              B2 Constar International, Inc., 6.1494%, 2/15/12 (144A)
                                                      TOTAL CORPORATE NOTES
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(Cost \$3,528,493)

TEMPORARY CASH INVESTMENT - 10.2% of Net Assets Repurchase Agreement - 10.2%

48,000,000 NR

NR UBS Warburg, 2.50%, dated 2/28/05, repurchase price of \$48,000,00 interest on 3/1/05 collateralized by \$56,920,000 U.S. Treasury Bi

TOTAL TEMPORARY CASH INVESTMENT (Cost \$48,000,000)

TOTAL INVESTMENTS IN SECURITIES - 113.4% (Cost \$528,861,764) (b) OTHER ASSETS AND LIABILITIES - (13.4)%

NET ASSETS APPLICABLE TO COMMON SHAREOWNERS - 100.0%

NR Security not rated by S&P or Moody's.

> Senior secured floating rate loan interests in which the Trust invests generally pay interest at rates that are periodically red reference to a base lending rate plus a premium. These base lend are generally (i) the lending rate offered by one or more major European banks, such as LIBOR (London InterBank Offered Rate), (i prime rate offered by one or more major United States banks, (iii) the certificate of deposit or (iv) other base lending rate commercial lenders.

(144A)Security is exempt from registration under Rule 144A of the Secur Such securities may be resold normally to qualified institutional buyers in a transaction exempt from registration. At February 28, 2005 the value of these securities

\$3,560,000 or 0.8% of net assets applicable to common shareowners

- (a) Floating rate note.
- (b) At February 28, 2005, the net unrealized gain on investments based on cost for of \$528,862,639 was as follows:

Aggregate gross unrealized gain for all investments in which there is an exce Aggregate gross unrealized loss for all investments in which there is an exce Net unrealized gain

For financial reporting purposes net unrealized gain on investments was \$3,82 investments aggregated \$528,861,764.

Purchases and sales of securities (excluding temporary cash investments) for February 28, 2005, aggregated \$507,920,408 and \$27,163,912, respectively.

For the period ended February 28, 2005, the Trust had unfunded loan commitment \$9,755,156, which would be extended at

the option of the borrower, pursuant to the following loan agreements:

Borrower Advanced Medical Optics, Inc. Celanese Holdings, LLC Cricket Communications, Inc. LNR Property Corp. Norwesco, Inc. Texas Genco, LLC Wynn Las Vegas, LLC

Glossary of Terms:

DIP - Debtor-In-Possession

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 certifying officers have determined that the registrant's disclosure controls and procedures are effective based on an evaluation of these controls and procedures as of a date within 90 days prior to 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 was no significant change in the registrant's internal controls over financial reporting 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.

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 April 30, 2005

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 30, 2005

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

Date April 30, 2005

 $^{^{\}star}$ Print the name and title of each signing officer under his or her signature.