

Pioneer Diversified High Income Trust
 Form 4
 December 17, 2007

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
FELTUS ANDREW

2. Issuer Name and Ticker or Trading Symbol
Pioneer Diversified High Income Trust [HNW]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
60 STATE ST
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
12/14/2007

____ Director _____ 10% Owner
 ____ Officer (give title below) Other (specify below)
Affiliated Person

BOSTON, MA 02109
 (City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | Code | V | Amount | (D) | Price |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | | 100 | D | \$ 19.76 14,900 |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | | 400 | D | \$ 19.75 14,500 |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | | 700 | D | \$ 19.78 13,800 |

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| | | | | | | | | |
|---------------------------------------|------------|------------|---|-------|---|----------|--------|---|
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | 200 | D | \$ 19.78 | 13,600 | D |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | 7,900 | D | \$ 19.75 | 5,700 | D |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | 200 | D | \$ 19.8 | 5,500 | D |
| Pioneer Diversified High Income Trust | 12/14/2007 | 12/14/2007 | S | 500 | D | \$ 19.85 | 5,000 | D |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 6) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--------------------------------|---------------|-----------|---------|-------------------|
| | Director | 10% Owner | Officer | Other |
| FELTUS ANDREW 60 STATE ST | | | | Affiliated Person |

BOSTON, MA 02109

Signatures

/s/ ANDREW
FELTUS

12/17/2007

**Signature of Reporting
Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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