

Bradley David A.  
Form 4  
December 30, 2010

**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 \*  
Bradley David A.

2. Issuer Name and Ticker or Trading Symbol  
Kraton Performance Polymers, Inc.  
[KRA]

5. Relationship of Reporting Person(s) to Issuer  
(Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Chief Operating Officer

(Last) (First) (Middle)  
C/O KRATON PERFORMANCE POLYMERS, 15710 JOHN F. KENNEDY BLVD, SUITE 300  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
12/29/2010

HOUSTON, TX 77032

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

(City) (State) (Zip)

**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 Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  | Code                           | V   | Amount  | (A) or (D)   | Price                                      |
| Common Stock                    | 12/29/2010 <sup>(1)</sup>            |  | M                              |   | 3,754   | A  | \$ 13.512                                  |
|                                 |                                      |  |                                |   |   |  | 43,414                                     |
| Common Stock                    | 12/29/2010 <sup>(1)</sup>            |  | S                              |   | 3,754   | D  | \$ 31.0386                                 |
|                                 |                                      |  |                                |   |   |  | 39,660                                     |

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

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number.

**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. Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------------------------------|
| Employee Options (Right to Buy)            | \$ 13.512  | 12/29/2010                           |  | M                              | 3,754<br>(1)  | (3) 03/08/2014   | Common Stock  | 3,754                         |

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director 10% Owner Officer Other

Bradley David A.  
C/O KRATON PERFORMANCE POLYMERS  
15710 JOHN F. KENNEDY BLVD, SUITE 300  
HOUSTON, TX 77032

Chief Operating Officer

## Signatures

/s/ Stephen W. Duffy as Attorney-in-Fact for David Bradley

12/30/2010

\_\_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).

(1) Transacted under a 10b5-1 plan that was adopted on November 17, 2010.

The price in column 4 is a weighted average. The prices actually received ranged from \$31.00 to \$31.12. For all transactions reported in (2) this Form 4 utilizing a weighted average price, the reporting person undertakes to provide upon request by the SEC staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price within the range.

(3) All options reported above have vested and are immediately exercisable.

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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