VULCAN MATERIALS CO
Reported by
OBRIEN RICHARD T

FORM 4
(Statement of Changes in Beneficial Ownership)

Filed 06/03/10 for the Period Ending 06/01/10

Address
1200 URBAN CENTER DRIVE
BIRMINGHAM, AL 35242

Telephone 2052983000
CIK 0001396009
Symbol VMC
Fiscal Year 12/31
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

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(f) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *

OBRIEN RICHARD T
(Last) (First) (Middle)
1200 URBAN CENTER DRIVE
(Birmingham, AL 35242

2. Issuer Name and Ticker or Trading Symbol

Vulcan Materials CO [ VMC ]

3. Date of Earliest Transaction (MM/DD/YYYY)

6/1/2010

4. If Amendment, Date Original Filed (MM/DD/YYYY)

5. Relationship of Reporting Person(s) to Issuer (Check all applicable)

__ X __ Director
___ 10% Owner
___ Officer (give title below)
___ Other (specify below)

6. Individual or Joint/Group Filing (Check Applicable Line)

_ X _ 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. Trans. Date 2A. Deemed Execution Date, if any 3. Trans. 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 Beneficial Ownership (Instr. 4)

<table>
<thead>
<tr>
<th>Code</th>
<th>Amount</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1803

Table II - Derivative Securities 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. Trans. Date 3A. Deemed Execution Date, if any 4. Trans. 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 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) 8. Price of Derivative Security (Instr. 5) 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) 11. Nature of Indirect Beneficial Ownership (Instr. 4)

<table>
<thead>
<tr>
<th>Code</th>
<th>(A)</th>
<th>(D)</th>
<th>Date Exercisable</th>
<th>Expiration Date</th>
<th>Title</th>
<th>Amount or Number of Shares</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Phantom Stock (Deferred Stock Units)

Explanation of Responses:

(1) Convertible on a 1-for-1 basis.

(2) Annual deferred stock grant made to the reporting person under the Vulcan Materials Company 2006 Omnibus Long-Term Incentive Plan.

(3) Deferred Stock Units vest on the third anniversary of the grant date. Vested shares will be delivered to the reporting person in the month of April following the year in which the reporting person ceases to be a member of the Board of Directors, unless the reporting person has elected to defer payment of the award, or unless payment is made earlier due to the death or disability of the reporting person or a change in control of Vulcan. The fair market value of the award is not determinable until the payment date.

Reporting Owners

<table>
<thead>
<tr>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBRIEN RICHARD T</td>
<td>Director</td>
</tr>
<tr>
<td>1200 URBAN CENTER DRIVE</td>
<td>X</td>
</tr>
<tr>
<td>BIRMINGHAM, AL 35242</td>
<td>10% Owner</td>
</tr>
<tr>
<td></td>
<td>Officer</td>
</tr>
</tbody>
</table>
Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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


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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.