Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person
   Mills Michael R
   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)
   2/9/2018

4. If Amendment, Date Original Filed (MM/DD/YYYY)
   (Instr. 3 and 4)

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

<table>
<thead>
<tr>
<th>Title of Security</th>
<th>Trans. Date</th>
<th>Exec. Date</th>
<th>Trans. Code</th>
<th>Acquired or Disposed of (A) or (D)</th>
<th>Amount</th>
<th>Price</th>
<th>Beneficially Owned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>2/9/2018</td>
<td>M</td>
<td>11520.00</td>
<td>A</td>
<td>$121.47</td>
<td>46001.00</td>
<td>D</td>
</tr>
<tr>
<td>Common Stock</td>
<td>2/9/2018</td>
<td>F</td>
<td>5110.00</td>
<td>D</td>
<td>$121.47</td>
<td>40891.00</td>
<td>D</td>
</tr>
<tr>
<td>Common Stock (401k)</td>
<td>2/9/2018</td>
<td>F</td>
<td>7200.00</td>
<td>D</td>
<td>$121.47</td>
<td>3200.00</td>
<td>D</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Title of Derivative Security</th>
<th>Trans. Date</th>
<th>Exec. Date</th>
<th>Exec. Code</th>
<th>Number of Derivative Securities Acquired or Disposed of (A) or (D)</th>
<th>Exercisable and Expiration Date</th>
<th>Title of Underlying Security</th>
<th>Amount or Number of Shares</th>
<th>Price of Derivative Security</th>
<th>Beneficially Owned Following Reported Transaction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Share Units</td>
<td>2/9/2018</td>
<td>M</td>
<td>7200.00</td>
<td>7200.00</td>
<td>12/31/2017</td>
<td>Common Stock</td>
<td>12/31/2017</td>
<td>$121.47</td>
<td>7200.00</td>
</tr>
</tbody>
</table>

Explanations of Responses:

1. Each performance unit is settled 100% in Vulcan common stock after deducting the amount of taxes due.

2. Each performance unit is settled 100% in Vulcan common stock after deducting the amount of taxes due on a payment date determined by the Compensation Committee. Performance Share Units vest at December 31 following a four-year award period. At the end of the award period, the Compensation Committee determines the payment amount based on pre-established performance criteria.

Reporting Owners

<table>
<thead>
<tr>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mills Michael R</td>
<td>Chief Administrative Officer</td>
</tr>
<tr>
<td>1200 URBAN CENTER DRIVE</td>
<td></td>
</tr>
<tr>
<td>BIRMINGHAM, AL 35242</td>
<td></td>
</tr>
</tbody>
</table>

Signatures

C. Samuel Todd, Attorney-in-Fact
2/13/2018
Signature of Reporting Person
Date

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.