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 *

MATSCULLAT ROBERT W
(last) (first) (middle)
1221 BROADWAY
(OAKLAND, CA 94612-1888)

2. Issuer Name and Ticker or Trading Symbol

CLOROX CO/DE/ [ CLX ]

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

8/6/2012

4. If Amendment, Date Original Filed

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

<table>
<thead>
<tr>
<th>Title of Security (Instr. 3)</th>
<th>2. Trans. Date</th>
<th>3. Trans. Code (Instr. 8)</th>
<th>4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>7. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>8/6/2012</td>
<td>M</td>
<td>3000.0000 A</td>
<td>53.7800</td>
<td>4324.0000 D</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 Derivate Security (Instr. 3)</th>
<th>2. Conversion or Exercise Price of Derivative Security</th>
<th>3. Trans. Date</th>
<th>3A. Deemed Execution Date, if any</th>
<th>4. Trans. Code (Instr. 8)</th>
<th>5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>6. Date Exercisable and Expiration Date</th>
<th>7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)</th>
<th>8. Price of Derivative Security (Instr. 5)</th>
<th>9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>11. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred Stock Units</td>
<td>(3)</td>
<td>2/13/2012</td>
<td>A</td>
<td>(4)</td>
<td>548.6600 V</td>
<td>(5)</td>
<td>(5)</td>
<td>Common Stock</td>
<td>548.6600</td>
<td>0.0000</td>
<td>62794.0589 D</td>
</tr>
<tr>
<td>Deferred Stock Units</td>
<td>(3)</td>
<td>5/11/2012</td>
<td>A</td>
<td>(4)</td>
<td>549.5400 V</td>
<td>(5)</td>
<td>(5)</td>
<td>Common Stock</td>
<td>549.5400</td>
<td>0.0000</td>
<td>63343.5989 D</td>
</tr>
<tr>
<td>Stock Option (Right to Buy)</td>
<td>$42.6500</td>
<td>8/6/2012</td>
<td>M</td>
<td>3000.0000</td>
<td>7/1/2004 7/1/2013</td>
<td>Common Stock</td>
<td>3000.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>D</td>
<td>0.0000</td>
</tr>
<tr>
<td>Stock Option (Right to Buy)</td>
<td>$53.7800</td>
<td>8/6/2012</td>
<td>M</td>
<td>3000.0000</td>
<td>7/1/2005 7/1/2014</td>
<td>Common Stock</td>
<td>3000.0000</td>
<td>0.0000</td>
<td>0.0000</td>
<td>D</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

Explanation of Responses:

(1) This transaction was executed in multiple trades at prices ranging from $71.70 to $71.71. The price reported above reflects the weighted average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.

(2) This transaction was executed in multiple trades at prices ranging from $71.65 to $71.69. The price reported above reflects the weighted
average sale price. The reporting person hereby undertakes to provide upon request to the SEC staff, the issuer or a security holder of the issuer full information regarding the number of shares and prices at which the transaction was effected.

(3) 1-for-1

(4) Deferred Stock Units acquired through dividend reinvestment during the fiscal year pursuant to the Independent Directors' Deferred Compensation Plan.

(5) The Deferred Stock Units will be settled 100% in Clorox stock in connection with the reporting person's retirement or other termination of service as a Director.

<table>
<thead>
<tr>
<th>Reporting Owners</th>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATSCHULLAT ROBERT W</td>
<td>Director X</td>
</tr>
<tr>
<td></td>
<td>1221 BROADWAY</td>
<td>10% Owner</td>
</tr>
<tr>
<td></td>
<td>OAKLAND, CA 94612-1888</td>
<td>Officer</td>
</tr>
</tbody>
</table>

Signatures
By Cheryl Brice, Attorney-in-Fact for 8/8/2012
** 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.