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 *
   Costello Michael R.
   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)
   8/20/2012

4. If Amendment, Date Original Filed
   
5. Relationship of Reporting Person(s) to Issuer
   (Check all applicable)
   _____ Director
   ____ 10% Owner
   X __ Officer (give title below) _____ Other (specify below)
   VP - GM, International

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

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

<table>
<thead>
<tr>
<th>Title of Security</th>
<th>Trans. Date</th>
<th>Code</th>
<th>Amount</th>
<th>Price</th>
<th>Code</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>8/20/2012</td>
<td>V</td>
<td>1683.0000</td>
<td>A $72.3100</td>
<td>A</td>
<td>11679.3492</td>
</tr>
<tr>
<td>Common Stock</td>
<td>8/20/2012</td>
<td>D</td>
<td>24.0000</td>
<td>D $72.3100</td>
<td>D</td>
<td>11655.3492</td>
</tr>
<tr>
<td>Common Stock</td>
<td></td>
<td>I</td>
<td>1195.8579</td>
<td>I</td>
<td></td>
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</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>Conversion or Exercise Price of Derivative Security</th>
<th>Trans. Date</th>
<th>Deemed Execution Date, if any</th>
<th>Trans. Code (Instr. 8)</th>
<th>Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>Date Exercisable and Expiration Date</th>
<th>Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)</th>
<th>Price of Derivative Security by Method (Instr. 5)</th>
<th>Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>Nature of Indirect Beneficial Ownership (Instr. 4)</th>
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Explanation of Responses:
(1) Settlement of 2009 Performance Unit Grant that vested 8/20/12, which the reporting person has elected to defer pursuant to the 2005 Stock Incentive Plan.
(2) Withholding of stock to pay certain taxes under the Company's Stock Withholding Arrangement.
(3) Includes 56.7783 shares acquired during the fiscal year pursuant to the Company's 401(k) Plan.

Reporting Owners

<table>
<thead>
<tr>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Costello Michael R. 1221 BROADWAY OAKLAND, CA 94612-1888</td>
<td>Director 10% Owner Officer VP - GM, International</td>
</tr>
</tbody>
</table>

Signatures
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.