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 *
MUELLER EDWARD A
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)
3/31/2011

5. Relationship of Reporting Person(s) to Issuer
__ X __ Director  ____ 10% Owner  ____ Officer (give title below)  ____ Other (specify below)

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Trans. Date</th>
<th>Deemed Execution Date</th>
<th>Trans. Code</th>
<th>Securities Acquired</th>
<th>Amount of Securities Beneficially Owned Following Reported Transaction(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred Stock Units</td>
<td>2/14/2011</td>
<td>A</td>
<td>V</td>
<td>99.5400</td>
<td>Common Stock 99.5400 $0.0000 12197.0005 D</td>
</tr>
<tr>
<td>Deferred Stock Units</td>
<td>3/31/2011</td>
<td>A</td>
<td>4</td>
<td>392.4600</td>
<td>Common Stock 392.4600 $0.0000 12589.4605 D</td>
</tr>
</tbody>
</table>

Explanation of Responses:
( 1) 1-for-1
( 2) Deferred Stock Units acquired through dividend reinvestment during the fiscal year pursuant to the Independent Directors' Deferred Compensation Plan.
( 3) 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.
( 4) Receipt of Deferred Stock Units in lieu of receipt of quarterly director's fees.

Reporting Owners

<table>
<thead>
<tr>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUELLER EDWARD A</td>
<td>Director 10% Owner</td>
</tr>
<tr>
<td>1221 BROADWAY</td>
<td>Officer Other</td>
</tr>
<tr>
<td>OAKLAND, CA 94612-1888</td>
<td>X</td>
</tr>
</tbody>
</table>
Signatures


** 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.