Form 4

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 *  
KANE JACQUELINE P  
(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)  
8/18/2010

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

SR VP- HR & Corporate Affairs

4. If Amendment, Date Original Filed  

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</th>
<th>Trans. Date</th>
<th>Code</th>
<th>Trans. Date</th>
<th>Amount</th>
<th>Securities Acquired or Disposed of (A) or (D)</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>6/25/2010</td>
<td>J (1)</td>
<td>V</td>
<td>4039</td>
<td>D</td>
<td>$0</td>
</tr>
<tr>
<td>Common Stock</td>
<td>8/18/2010</td>
<td>A (2)</td>
<td>V</td>
<td>7303</td>
<td>A</td>
<td>$65.16</td>
</tr>
<tr>
<td>Common Stock</td>
<td>8/18/2010</td>
<td>P (3)</td>
<td>V</td>
<td>2679</td>
<td>D</td>
<td>$65.16</td>
</tr>
<tr>
<td>Common Stock</td>
<td>6/25/2010</td>
<td>J (1)</td>
<td>V</td>
<td>4039</td>
<td>A</td>
<td>$0</td>
</tr>
<tr>
<td>Common Stock</td>
<td></td>
<td></td>
<td></td>
<td>460.6243</td>
<td></td>
<td></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</th>
<th>Conversion or Exercise Date</th>
<th>Trans. Date</th>
<th>Code</th>
<th>Trans. Date</th>
<th>Amount or Number of Shares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td></td>
<td></td>
<td>V (A)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Explanation of Responses:

(1) Transfer holdings to family trust.
(2) Settlement of 2007 Performance Unit Grant, which vested 8/18/10.
(3) Withholding of stock to pay tax liability under the Company's Stock Withholding Arrangement.
(4) Includes 15,0043 shares acquired during the fiscal year ended 6/30/10, pursuant to the Company’s Employee Retirement Investment Plan/401(k).

Reporting Owners

<table>
<thead>
<tr>
<th>Reporting Owner Name / Address</th>
<th>Relationships</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Director</td>
</tr>
</tbody>
</table>
Signatures

By Angela Hilt, Attorney-in-Fact for 8/20/2010

** 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.