

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934
(Amendment No. 6)*

The Clorox Company

(Name of Issuer)

Common Stock, Par Value \$1.00

(Title of Class of Securities)

189054109

(CUSIP Number)

Keith Schaitkin, Esq.

Icahn Capital LP

767 Fifth Avenue, 47th Floor

New York, New York 10153

(212) 702-4300

(Name, Address and Telephone Number of Person Authorized to
Receive Notices and Communications)

September 22, 2011

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Section 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box //.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

SCHEDULE 13D

Item 1. Security and Issuer

This statement constitutes Amendment No. 6 to the Schedule 13D relating to the Common Stock, par value \$1.00 (the "Shares"), issued by The Clorox Company (the "Issuer"), and hereby amends the Schedule 13D filed with the Securities and Exchange Commission on February 11, 2011 and amended by amendments No.1 through 5 thereto (as amended, the "Initial Schedule 13D"), on behalf of the Reporting Persons (as defined in the Initial Schedule 13D), to furnish the additional information set forth herein. All capitalized terms contained herein but not otherwise defined shall have the meanings ascribed to such terms in the Initial Schedule 13D.

Item 4. Purpose of Transaction

Item 4 is hereby amended by adding the following:

The Reporting Persons have decided to withdraw their slate of directors after concluding that a considerable base of shareholders would not support their stated campaign at this time. While the Reporting Persons continue to believe that the best way to ultimately maximize shareholder value is through a sale of the Issuer to a strategic buyer, the Reporting Persons respect and understand that several large shareholders may believe that now is not the best time to run that process, given the deteriorating conditions of the financial markets and the Issuer's view that even the Reporting Persons \$80 per share offer substantially undervalues the Issuer.

SIGNATURE

After reasonable inquiry and to the best of each of the undersigned knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: September 23, 2011

ICAHN PARTNERS MASTER FUND LP
ICAHN PARTNERS MASTER FUND II LP
ICAHN PARTNERS MASTER FUND III LP
ICAHN OFFSHORE LP
ICAHN PARTNERS LP
ICAHN ONSHORE LP
BECKTON CORP.
HOPPER INVESTMENTS LLC
BARBERRY CORP.
HIGH RIVER LIMITED PARTNERSHIP
By: Hopper Investments LLC, general partner

By: /s/ Edward E. Mattner

Name: Edward E. Mattner
Title: Authorized Signatory

ICAHN CAPITAL LP
By: IPH GP LLC, its general partner By: Icahn Enterprises Holdings L.P., its sole member By: Icahn Enterprises G.P. Inc., its general partner
IPH GP LLC
By: Icahn Enterprises Holdings L.P., its sole member By: Icahn Enterprises G.P. Inc., its general partner ICAHN ENTERPRISES HOLDINGS
L.P.
By: Icahn Enterprises G.P. Inc., its general partner
ICAHN ENTERPRISES G.P. INC.

By: /s/ Dominick Ragone

Name: Dominick Ragone
Title: Chief Financial Officer

/s/ Carl C. Icahn

CARL C. ICAHN

[Signature Page of Amendment No 6 to Schedule 13D - The Clorox Company]