

CROMPTON CORP  
Form 5  
February 11, 2005

# FORM 5

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).  
Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person \*  
RUCK WALTER K  
  
(Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol  
CROMPTON CORP [CK]

5. Relationship of Reporting Person(s) to Issuer  
  
(Check all applicable)

BENSON ROAD  
  
(Street)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
12/31/2004

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
SVP Euro, Africa & M.D.

MIDDLEBURY, CT 06749

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Reporting  
  
(check applicable line)

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D) Price  |  |  |                                   |
| Common Stock                    | Â                                    | Â  | Â                              | Â Â Â   | 46,877   | D  | Â                                 |
| Common Stock                    | Â                                    | Â  | Â                              | Â Â Â   | 9,696.9688   | I  | ESOP TRUST                        |
| Common Stock                    | Â                                    | Â  | Â                              | Â Â Â   | 20,551   | I  | LTIP Trust                        |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 2270 (9-02)

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**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) |                  | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Amount or Number of Shares |                            |
|--|--|--------------------------------------|--|--------------------------------|---|--|------------------|---|-------------------------------|----------------------------|
|  |  |                                      |  |                                | (A)   | (D)  | Date Exercisable | Expiration Date   | Title                         | Amount or Number of Shares |
| NQ Stock Option (Right to Buy)             | \$ 5.85  | Â                                    | Â  | Â                              | Â   | Â  | 10/20/2004       | 11/19/2013  | Common Stock                  | 19,265                     |
| NQ Stock Option (Right to Buy)             | \$ 6.38  | Â                                    | Â  | Â                              | Â   | Â  | 01/21/2004       | 02/20/2013  | Common Stock                  | 10,690                     |
| NQ Stock Option (Right to Buy)             | \$ 7.25  | Â                                    | Â  | Â                              | Â   | Â  | 10/22/2003       | 11/21/2012  | Common Stock                  | 9,863                      |
| NQ Stock Option (Right to Buy)             | \$ 7.92  | Â                                    | Â  | Â                              | Â   | Â  | 10/23/2002       | 11/22/2011  | Common Stock                  | 12,500                     |
| NQ Stock Option (Right to Buy)             | \$ 8.1562  | Â                                    | Â  | Â                              | Â   | Â  | 10/31/2001       | 11/30/2010  | Common Stock                  | 30,000                     |
| NQ Stock Option (Right to Buy)             | \$ 8.343   | Â                                    | Â  | Â                              | Â   | Â  | 10/19/2000       | 11/19/2009  | Common Stock                  | 81,244                     |
| NQ Stock                                   | \$ 14.3438   | Â                                    | Â  | Â                              | Â   | Â  | 08/05/1999       | 11/14/2008  | Common Stock                  | 26,062                     |

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|   |            |   |   |   |   |   |            |            |                 |        |  |
|---|------------|---|---|---|---|---|------------|------------|-----------------|--------|--|
| Option<br>(Right to<br>Buy)                 |            |   |   |   |   |   |            |            |                 |        |  |
| NQ<br>Stock<br>Option<br>(Right to<br>Buy)  | \$ 26.4063 | Â | Â | Â | Â | Â | 08/04/1999 | 11/07/2007 | Common<br>Stock | 10,722 |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 5.85    | Â | Â | Â | Â | Â | 10/20/2004 | 10/19/2013 | Common<br>Stock | 735    |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 6.38    | Â | Â | Â | Â | Â | 01/21/2004 | 01/21/2013 | Common<br>Stock | 34,310 |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 7.25    | Â | Â | Â | Â | Â | 10/22/2003 | 10/22/2012 | Common<br>Stock | 10,137 |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 7.92    | Â | Â | Â | Â | Â | 10/23/2003 | 10/23/2011 | Common<br>Stock | 12,500 |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 8.343   | Â | Â | Â | Â | Â | 10/19/2001 | 10/19/2009 | Common<br>Stock | 18,756 |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 14.3438 | Â | Â | Â | Â | Â | 08/04/1999 | 10/14/2008 | Common<br>Stock | 3,938  |  |
| ISO<br>Stock<br>Option<br>(Right to<br>Buy) | \$ 14.5    | Â | Â | Â | Â | Â | 08/04/1999 | 08/21/2006 | Common<br>Stock | 15,000 |  |
| ISO<br>Stock<br>Option                      | \$ 26.4063 | Â | Â | Â | Â | Â | 08/04/1999 | 10/07/2007 | Common<br>Stock | 4,278  |  |

(Right to Buy)

## Reporting Owners

| Reporting Owner Name / Address                       | Relationships |           |                                    |       |
|--|---------------|-----------|------------------------------------|-------|
|  | Director      | 10% Owner | Officer                            | Other |
| RUCK WALTER K<br>BENSON ROAD<br>MIDDLEBURY, CT 06749 | ^             | ^         | ^ SVP<br>Euro,<br>Africa &<br>M.D. | ^     |

## Signatures

Walter K. Ruck                      02/11/2005

Signature of  
Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

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