

CROMPTON CORP  
Form 5  
February 10, 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 \*  
**CALARCO VINCENT A**

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Former Director

(Last) (First) (Middle)  
  
**199 BENSON ROAD**  
  
(Street)

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

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

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

**MIDDLEBURY, CT 06749**

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 Indirect Beneficial Ownership (Instr. 4)
Common Stock	Â	Â	Â	Â	1,081,350	D	Â
Common Stock	Â	Â	Â	Â	60,816.4413	I	DRIP

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

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

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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)	
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
NQ Stock Option (Right to Buy)	\$ 6.38	Â	Â	Â	Â	Â	01/21/2005	06/30/2009	Common Stock	390,000
NQ Stock Option (Right to Buy)	\$ 7.25	Â	Â	Â	Â	Â	10/22/2003	06/30/2009	Common Stock	225,000
NQ Stock Option (Right to Buy)	\$ 7.92	Â	Â	Â	Â	Â	10/23/2003	06/30/2009	Common Stock	350,000
NQ Stock Option (Right to Buy)	\$ 8.1562	Â	Â	Â	Â	Â	10/31/2001	06/30/2009	Common Stock	375,000
NQ Stock Option (Right to Buy)	\$ 8.3437	Â	Â	Â	Â	Â	10/19/2002	06/30/2009	Common Stock	800,000
NQ Stock Option (Right to Buy)	\$ 13	Â	Â	Â	Â	Â	08/04/1999	10/18/2005	Common Stock	7,692
NQ Stock Option (Right to Buy)	\$ 13	Â	Â	Â	Â	Â	08/04/1999	11/18/2005	Common Stock	102,308

NQ Stock Option (Right to Buy)	\$ 14.3437	Â	Â	Â	Â	Â	08/05/1999	11/14/2008	Common Stock	250,000
NQ Stock Option (Right to Buy)	\$ 14.5	Â	Â	Â	Â	Â	08/04/1999	08/21/2006	Common Stock	27,584
NQ Stock Option (Right to Buy)	\$ 14.5	Â	Â	Â	Â	Â	08/04/1999	09/21/2006	Common Stock	472,416
NQ Stock Option (Right to Buy)	\$ 16.875	Â	Â	Â	Â	Â	08/04/1999	11/16/2006	Common Stock	120,000
NQ Stock Option (Right to Buy)	\$ 26.4063	Â	Â	Â	Â	Â	08/04/1999	11/07/2007	Common Stock	120,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CALARCO VINCENT A 199 BENSON ROAD MIDDLEBURY, CT 06749	Â	Â	Â	Former Director

## Signatures

Vincent A.  
Calarco

02/10/2005

\*\*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).

Note: File three copies of this Form, one of which must be manually signed. If space provided is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.