

VAGNINI MICHAEL F  
 Form 4  
 February 02, 2005

**FORM 4**

**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).

**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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 VAGNINI MICHAEL F

(Last) (First) (Middle)  
  
  
  
  
  
  
  
  
  
  
 (Street)

MIDDLEBURY, CT 06749

(City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)  
 02/01/2005

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 Corporate Controller

6. Individual or Joint/Group Filing (Check Applicable Line)  
 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**

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 Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	02/01/2005		J <sup>(1)</sup>		1,366	A	\$ 11.17
Common Stock	02/01/2005		J <sup>(2)</sup>		27.6621	A	\$ 0
Common Stock							153.4958
Common Stock							63,485
Common Stock	02/01/2005		J <sup>(3)</sup>		275	A	\$ 0
							10,275

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Common Stock	02/02/2005	J <sup>(4)</sup>	2,568	D	\$ 11.17	7,707	I	Restricted Stock Account
Common Stock						6,500	I	Restricted Stock Account II

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

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(9-02)

**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. Price or Amount of Derivative Security (Instr. 3)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
NQ Stock Option (Right to Buy)	\$ 5.85					10/20/2004 11/19/2013	Common Stock	13,812	
NQ Stock Option (Right to Buy)	\$ 6.38					01/21/2004 02/20/2013	Common Stock	5,690	
NQ Stock Option (Right to Buy)	\$ 7.25					10/22/2003 10/22/2012	Common Stock	7,132	
NQ Stock Option (Right to Buy)	\$ 7.92					10/23/2002 11/22/2011	Common Stock	10,000	

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Buy)						
NQ Stock Option (Right to Buy)	\$ 8.1562	10/31/2001	11/30/2010	Common Stock	20,000	
NQ Stock Option (Right to Buy)	\$ 8.343	10/19/2000	11/19/2009	Common Stock	40,473	
NQ Stock Option (Right to Buy)	\$ 11.24	11/23/2005	12/22/2014	Common Stock	25,000	
NQ Stock Option (Right to Buy)	\$ 14.3438	08/04/1999	11/14/2008	Common Stock	727	
ISO Stock Option (Right to Buy)	\$ 5.85	10/20/2004	10/19/2013	Common Stock	6,188	
ISO Stock Option (Right to Buy)	\$ 6.38	01/21/2004	01/21/2013	Common Stock	24,310	
ISO Stock Option (Right to Buy)	\$ 7.25	10/22/2003	10/22/2012	Common Stock	12,868	
ISO Stock Option (Right to Buy)	\$ 7.92	10/23/2003	10/23/2011	Common Stock	10,000	
ISO Stock Option (Right to Buy)	\$ 8.343	10/19/2001	10/19/2009	Common Stock	9,527	

ISO Stock Option \$ 14.3438 (Right to Buy)	08/04/1999	10/14/2008	Common Stock	7,273
ISO Stock Option \$ 16.875 (Right to Buy)	08/04/1999	11/16/2006	Common Stock	5,000
ISO Stock Option \$ 26.4063 (Right to Buy)	08/04/1999	11/07/2007	Common Stock	5,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
VAGNINI MICHAEL F MIDDLEBURY, CT 06749			Corporate Controller	

## Signatures

Michael F.  
Vagnini

02/02/2005

\*\*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).
- (1) Direct holdings increased by 1,366 shares transferred from the 2004-2006 Long Term Incentive Plan (Restricted Stock Account).
- (2) These shares were acquired during the fiscal year pursuant to the Registrant's Employee Stock Ownership Plan and through reinvestment of dividends paid on the shares in this fund (ESOP Trust).
- (3) These shares were acquired during the fiscal year pursuant to the 2004-2006 Long Term Incentive Plan and through reinvestment of dividends paid on the shares in this fund.
- (4) 2,568 Shares were distributed to the reporting person in accordance with the 2004-2006 Long Term Incentive Plan (from Restricted Stock Account) of which 1,202 shares were withheld to satisfy tax withholding requirements.

Note: File three copies of this Form, one of which must be manually signed. If space 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.