Meadows-Smith Marcus C
Form 4
February 24, 2005

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(h) of the Investment Company Act of 1940

OMB APPROVAL
OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden hours per response... 0.5

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Meadows-Smith Marcus C

(Last) (First) (Middle)

199 BENSON ROAD

(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)
02/23/2005

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

5. Relationship of Reporting Person(s) to Issuer
(Check all applicable)
_____ Director _____ 10% Owner
__X__ Officer (give title below) _____ Other (specify below)
Executive VP, Crop Protection

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

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								13,500	I	Restricted Stock Account
Common Stock	02/23/2005		J(1)		15,000	A	$ 12.92	15,000	I	Restricted Stock Account I

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

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.

SEC 1474 (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)	
				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	3,000
NQ Stock Option (Right to Buy)	$ 7.25							10/22/2003	11/21/2012	Common Stock	3,000
NQ Stock Option (Right to Buy)	$ 7.92							10/23/2002	11/22/2011	Common Stock	2,500
NQ Stock Option (Right to Buy)	$ 11.24							11/23/2005	12/22/2014	Common Stock	35,000
NQ Stock Option (Right to Buy)	$ 12.92	02/23/2005		J(2)		45,000		02/23/2006	03/22/2015	Common Stock	45,000
ISO Stock Option (Right to Buy)	$ 8.1562							10/31/2001	10/31/2010	Common Stock	2,500
ISO Stock Option (Right to	$ 8.3437							10/19/2000	10/19/2009	Common Stock	500

Buy)

ISO Stock Option (Right to Buy)	$ 16.875		10/16/1997	10/15/2006	Common Stock	500

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Meadows-Smith Marcus C 199 BENSON ROAD MIDDLEBURY, CT 06749			Executive VP, Crop Protection	

Signatures

Marcus Meadows-Smith	02/24/2005
**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) Restricted Shares acquired pursuant to the 2005-2007 Long-Term Incentive Plan will vest upon a share of the Registrant's common stock reaching the following stock price milestones: twenty (20%) percent of grant upon closing price of a share attaining $14.00; twenty (20%) percent of grant upon closing price of a share attaining $16.75; twenty (20%) percent of grant upon closing price of a share attaining $19.88; and forty (40%) of grant upon closing price of share attaining $23.60. Shares will vest as stated above when a particular milestone is reached and maintained for ten (10) consecutive trading days, based on the closing price of a share of the Registrant's common stock on the New York Stock Exchange.

(2) Options will vest as follows: one-third (1/3) of grant on February 23, 2006; one-third (1/3) of grant on February 23, 2007; and one-third of grant on February 23, 2008.

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.