#### **CROMPTON CORP**

Form 5

February 11, 2005

#### **OMB APPROVAL** FORM 5 **OMB**

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 Check this box if no longer subject

to Section 16. Form 4 or Form 5 obligations may continue. See Instruction

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per response...

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940

Form 4

Transactions Reported

1. Name and Address of Reporting Person \* 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer WOOD ROBERT L Symbol CROMPTON CORP [CK] (Check all applicable) (Last) (First) (Middle) 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) Director 10% Owner Other (specify \_X\_\_ Officer (give title 12/31/2004 below) below) 199 BENSON ROAD President and CEO (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year)

(check applicable line)

3235-0362

January 31,

2005

1.0

Number:

Expires:

#### MIDDLEBURY, Â CTÂ 06749

\_X\_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person

(City)	(State)	(Zip) Tab	le I - Non-Der	ivative Se	curiti	es Acqı	iired, Disposed o	of, or Beneficia	lly 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. Securi Acquired Disposed (Instr. 3,	l (A) o l of (D	))	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	Â	Â	73,049	D	Â
Common Stock	Â	Â	Â	Â	Â	Â	133,579	I	Restricted Stock Account I
Common Stock	Â	Â	Â	Â	Â	Â	205,507	I	Restricted Stock Account II
	Â	Â	Â	Â	Â	Â	1,179.6409	I	

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Common **ESOP** Stock Trust Common Â Â 10,850 Ι **BEP Trust** Stock Persons who respond to the collection of information Reminder: Report on a separate line for each class of SEC 2270 contained in this form are not required to respond unless securities beneficially owned directly or indirectly. (9-02)the form displays a currently valid OMB control number.

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)	Number		(Month/Day/Year) tive ties ties tied add add add add add add add add add a		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)	\$ 7.64	Â	Â	Â	Â	<b>\</b>	01/20/2005	02/19/2014	Common Stock	500,000

## **Reporting Owners**

Reporting Owner Name / Address	Relationships						
·r	Director	10% Owner	Officer	Other			
WOOD ROBERT L 199 BENSON ROAD MIDDLEBURY, CT 06749	Â	Â	President and CEO	Â			

## **Signatures**

Robert L. Wood 02/11/2005

\*\*Signature of Date
Reporting Person

# **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.

Reporting Owners 2

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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.