

WOOLF PATRICIA K  
Form 4  
January 28, 2005

**FORM 4**

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

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).

**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 \*  
WOOLF PATRICIA K

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
506 QUAKER ROAD  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
01/26/2005

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

PRINCETON, NJ 08540

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

6. Individual or Joint/Group Filing(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 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	Price	
Common Stock					11,163		D
Common Stock	01/26/2005		J <sup>(1)</sup>		340.7266	A \$ 0	1,504.1511 I DRIP
Common Stock	01/26/2005		J <sup>(2)</sup>		557	A \$ 0	20,950 I DIR/RABBI TRUST
Common Stock	01/26/2005		J <sup>(3)</sup>		6,052	A \$ 10.74	6,052 I Restricted Stock Account

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

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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)	8. Price or Value 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)	\$ 7.25					10/22/2003	11/21/2012	Common Stock	9,655
NQ Stock Option (Right to Buy)	\$ 7.92					10/23/2002	11/22/2011	Common Stock	8,838
NQ Stock Option (Right to Buy)	\$ 8.1562					10/31/2001	11/30/2010	Common Stock	7,500
NQ Stock Option (Right to Buy)	\$ 8.343					10/19/2000	10/19/2009	Common Stock	7,500
NQ Stock Option (Right to Buy)	\$ 8.343					10/19/2000	11/19/2009	Common Stock	25,000
NQ Stock	\$ 13					08/04/1999	11/18/2005	Common Stock	1,538

Option (Right to Buy)						
NQ Stock						
Option \$ 14.3438 (Right to Buy)	08/05/1999	11/14/2008	Common Stock	5,752		
NQ Stock						
Option \$ 14.5 (Right to Buy)	08/04/1999	09/21/2006	Common Stock	10,000		
NQ Stock						
Option \$ 16.0625 (Right to Buy)	08/04/1999	02/24/2005	Common Stock	1,245		
NQ Stock						
Option \$ 16.875 (Right to Buy)	08/04/1999	11/16/2006	Common Stock	2,963		
NQ Stock						
Option \$ 26.4063 (Right to Buy)	08/04/1999	11/07/2007	Common Stock	1,893		

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
WOOLF PATRICIA K 506 QUAKER ROAD PRINCETON, NJ 08540	X			

## Signatures

Patricia K. Woolf	01/28/2005
**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) These shares were acquired during the fiscal year pursuant to the registrant's Dividend Reinvestment Plan and through the reinvestment of dividends paid on the shares in this fund.
- (2) These shares were acquired during the fiscal year pursuant to the Directors Deferred Compensation Plan and through reinvestment of dividends paid on the shares in this fund.
- (3) The Reporting Person received these shares of the Registrant's common stock in lieu of receiving a portion of her cash compensation for service as a member of the Board of Directors.

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.