

CROMPTON CORP  
 Form 5  
 February 11, 2005

# FORM 5

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

OMB APPROVAL

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 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 \*  
**PICCOLO C A**

(Last) (First) (Middle)

**HEALTHPIC CONSULTANTS,  
 INC., 111 BARCLAY  
 BOULEVARD**

(Street)

**LINCOLNSHIRE, IL 60069**

(City) (State) (Zip)

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

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

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)

6. Individual or Joint/Group Reporting

(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 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)
				(A)	or	(D) Price			
Common Stock	Â	Â	Â	Â	Â	Â	16,539	D	Â
Common Stock	Â	Â	Â	Â	Â	Â	2,831.3928	I	DRIP
Common Stock	Â	Â	Â	Â	Â	Â	24,412	I	DIR/RABBI TRUST

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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. Amount or Number of Shares
NQ Stock Option (Right to Buy)	\$ 6.38	Â	Â	Â	Â Â	01/21/2004 02/20/2013	Common Stock	8,229
NQ Stock Option (Right to Buy)	\$ 7.25	Â	Â	Â	Â Â	10/22/2003 11/21/2012	Common Stock	9,655
NQ Stock Option (Right to Buy)	\$ 7.92	Â	Â	Â	Â Â	10/23/2002 11/22/2011	Common Stock	8,838
NQ Stock Option (Right to Buy)	\$ 8.1562	Â	Â	Â	Â Â	10/31/2001 11/30/2010	Common Stock	7,500
NQ Stock Option (Right to Buy)	\$ 8.343	Â	Â	Â	Â Â	10/19/2000 10/19/2009	Common Stock	7,500
NQ Stock Option	\$ 8.343	Â	Â	Â	Â Â	10/19/2000 11/19/2009	Common Stock	25,000



LINCOLNSHIRE, IL 60069

## Signatures

C.A. (Lance)

02/11/2005

Piccolo

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.