#### **CROMPTON CORP**

Check this box if

no longer subject

to Section 16.

5 obligations

may continue.

Form 4 or Form

Form 5

February 11, 2005

### FORM 5

#### **OMB APPROVAL**

UNITED STATES SECURITIES AND EXCHANGE COMMISSION OMB Number: 3235-0362

Expires: January 31, 2005

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OWNERSHIP OF SECURITIES

Washington, D.C. 20549

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL

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

Reported Form 4 30(h) of the Investment Company Act of 1940

Transactions Reported

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

#### CHARLESTON, SCÂ 29424

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

(City)	(State)	(Zip) Tab	le I - Non-Dei	ivative Se	ecuriti	ies Acq	uired, Disposed	l of, or Benefi	cially 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,	d (A) od of (D) 4 and (A) or	))	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	Ownership Form:	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	Â	Â	Â	Â	Â	Â	9,727	D	Â
Common Stock	Â	Â	Â	Â	Â	Â	410.5612	I	DRIP
Common Stock	Â	Â	Â	Â	Â	Â	25,549	I	DIR/RABBI TRUST

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

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SEC 2270 (9-02)

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# $\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (\emph{e.g.}, puts, calls, warrants, options, convertible securities) \\ \end{tabular}$

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		6. Date Exercisable and Expiration Date (Month/Day/Year)		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)	\$ 7.25	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 (Right to Buy)	\$ 8.343	Â	Â	Â	Â	Â	10/19/2000	11/19/2009	Common Stock	25,000
NQ Stock Option (Right to Buy)	\$ 13	Â	Â	Â	Â	Â	08/04/1999	11/18/2005	Common Stock	1,538
NQ Stock	\$ 14.3438	Â	Â	Â	Â	Â	08/05/1999	11/14/2008	Common Stock	5,752

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Option (Right to Buy)										
NQ Stock Option (Right to Buy)	\$ 14.5	Â	Â	Â	Â	Â	08/04/1999	09/21/2006	Common Stock	10,000
NQ Stock Option (Right to Buy)	\$ 16.0625	Â	Â	Â	Â	Â	08/04/1999	02/24/2005	Common Stock	1,245
NQ Stock Option (Right to Buy)	\$ 16.875	Â	Â	Â	Â	Â	08/04/1999	11/16/2006	Common Stock	2,963
NQ Stock Option (Right to Buy)	\$ 21.4375	Â	Â	Â	Â	Â	08/04/1999	02/24/2004	Common Stock	933
NQ Stock Option (Right to Buy)	\$ 26.4063	Â	Â	Â	Â	Â	08/04/1999	11/07/2007	Common Stock	1,893

## **Reporting Owners**

Reporting Owner Name / Address	Relationships							
• 0	Director	10% Owner	Officer	Other				
HIGDON LEO I JR 6 GLEBE STREET CHARLESTON, SC 29424	ÂX	Â	Â	Â				

## **Signatures**

Leo I. Higdon,
Jr.

\*\*Signature of Reporting Person

Date

Reporting Owners 3

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### **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.