CROMPTON CORP Form 5 February 11, 2005			OMB AP	PROVAL	
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). Form 3 Holdings Section 17(a) of the Benorted	S SECURITIES AND EXCHANGE Washington, D.C. 20549 FATEMENT OF CHANGES IN BEN OWNERSHIP OF SECURITIES Section 16(a) of the Securities Exchan Public Utility Holding Company Act of) of the Investment Company Act of 19	NEFICIAL ge Act of 1934, of 1935 or Section	OMB Number: Expires: Estimated a burden hour response	0	1,)5
1. Name and Address of Reporting Person <u></u> JEPSEN JOHN R (Last) (First) (Middle)	 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 	Director Officer (give t below)	all applicable)) Owner	
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Jo	int/Group Repo	orting	

MIDDLEBURY, CTÂ 06749

> _X_ 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. Securi Acquired Disposed (Instr. 3, Amount	l (A) c 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	24,403	D	Â	
Common Stock	Â	Â	Â	Â	Â	Â	4,494.5333	Ι	ESOP TRUST	
Common Stock	Â	Â	Â	Â	Â	Â	5,138	I	Restricted Stock Account	

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

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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. Num of Deriv Secu (A) of Dispe of (D (Instr 4, and	vative rities nired or osed 0) r. 3,	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and A Underlying S (Instr. 3 and	Securities
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
NQ Stock Option (Right to Buy)	\$ 5.85	Â	Â	Â	Â	Â	10/20/2004	11/19/2013	Common Stock	5,000
NQ Stock Option (Right to Buy)	\$ 6.38	Â	Â	Â	Â	Â	01/21/2004	02/20/2013	Common Stock	8
NQ Stock Option (Right to Buy)	\$ 7.25	Â	Â	Â	Â	Â	10/22/2003	11/21/2012	Common Stock	2,132
NQ Stock Option (Right to Buy)	\$ 7.92	Â	Â	Â	Â	Â	10/23/2002	11/22/2011	Common Stock	10,000
NQ Stock Option (Right to Buy)	\$ 8.1562	Â	Â	Â	Â	Â	10/31/2001	11/30/2010	Common Stock	20,000
NQ Stock Option (Right to Buy)	\$ 8.343	Â	Â	Â	Â	Â	10/19/2000	11/19/2009	Common Stock	22,642

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ISO Stock Option (Right to Buy)	\$ 5.85	Â	Â	Â	Â	Â	10/20/2004	10/19/2013	Common Stock	5,000
ISO Stock Option (Right to Buy)	\$ 6.38	Â	Â	Â	Â	Â	01/21/2004	01/21/2013	Common Stock	29,992
ISO Stock Option (Right to Buy)	\$ 7.25	Â	Â	Â	Â	Â	10/22/2003	10/22/2012	Common Stock	7,868
ISO Stock Option (Right to Buy)	\$ 7.92	Â	Â	Â	Â	Â	10/23/2003	10/23/2011	Common Stock	10,000
ISO Stock Option (Right to Buy)	\$ 8.343	Â	Â	Â	Â	Â	10/19/2000	10/19/2009	Common Stock	27,358
ISO Stock Option (Right to Buy)	\$ 14.3438	Â	Â	Â	Â	Â	08/05/2000	10/14/2008	Common Stock	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships									
	Director	10% Owner Officer		Other						
JEPSEN JOHN R	Â	Â	Â	Former Officer						
MIDDLEBURY, CT 06749		71	11							
Signatures										
John R. Jepsen 02/1	1/2005									
<u>**</u> 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.