XTERA COMMUNICATIONS, INC.

Form 4

October 13, 2016

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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obligations

may continue.

See Instruction

Check this box

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * **BYBEE CLINTON**

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

below)

Symbol XTERA COMMUNICATIONS.

(Check all applicable)

INC. [XCOM]

(Last)

(First) (Middle)

(Month/Day/Year) Execution Date, if

3. Date of Earliest Transaction

X_ Director 10% Owner Other (specify Officer (give title

(Month/Day/Year)

Filed(Month/Day/Year)

10/11/2016

8755 WEST HIGGINS ROAD. **SUITE 1025**

(Street)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

CHICAGO, IL 60631

Security

(Instr. 3)

(City) (State) (Zip) 1. Title of 2. Transaction Date 2A. Deemed

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3.

Code

(Instr. 8)

4. Securities TransactionAcquired (A) or Disposed of (D)

(Instr. 3, 4 and 5)

(A)

or

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership

(Instr. 4)

(Instr. 4)

Following Reported

Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price

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

(Month/Day/Year)

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless 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)

3. Transaction Date 3A. Deemed 1. Title of Derivative (Month/Day/Year) Execution Date, if TransactionDerivative Conversion

5. Number of

6. Date Exercisable and **Expiration Date**

7. Title and Amount of **Underlying Securities**

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8	3)	Securities Acquired (or Dispose (D) (Instr. 3, 4, and 5)	ed of	(Month/Day/Year)		(Instr. 3 and 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Warrants to Purchase Common Stock	\$ 0.61	10/11/2016		P		83,500		10/11/2016	10/11/2026	Common Stock	83,500

Reporting Owners

Reporting Owner Name / Address	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
BYBEE CLINTON 8755 WEST HIGGINS ROAD, SUITE 1025 CHICAGO, IL 60631	X	X					

Signatures

/s/ Mark McDonnell for Clinton W. 10/13/2016 Bybee

**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).
- The Warrants reported on this Form 4 were issued by Xtera Communications, Inc. (the "Company") as part of a private placement of secured promissory notes (the "Notes"). Each purchaser of Notes received warrants to purchase one share of the Company's Common Stock for each \$1.00 of principal amount of Notes purchased
 - The Warrants are held of record by ARCH Venture Fund VI, L.P. ("ARCH Fund VI"). The sole general partner of ARCH Fund VI is ARCH Venture Partners VI, L.P. ("ARCH Partners VI"), which may be deemed to beneficially own the shares held by ARCH Fund VI. The sole general partner of ARCH Partners VI is ARCH Venture Partners VI, LLC ("ARCH VI LLC"), which may be deemed to
- beneficially own the shares held by ARCH Fund VI. ARCH Partners VI and ARCH VI LLC disclaim beneficial ownership of such shares, except to the extent of any pecuniary interest therein. The managing directors of ARCH VI LLC are Clinton Bybee, Keith Crandell and Robert Nelsen, and as such they may be deemed to have shared voting and investment power over the shares held by ARCH Fund VI. Mr. Bybee is a member of the Company's board of directors. Messrs. Bybee, Crandell and Nelsen disclaim beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

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.

Reporting Owners 2