

SECURITIES AND EXCHANGE COMMISSION

FORM 3

Filing Date: **2010-06-01** | Period of Report: **2010-05-18**
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REPORTING OWNER

Avimor Jacob

CIK: **1493076**

Type: **3** | Act: **34** | File No.: **001-33355** | Film No.: **10868925**

Mailing Address

*C/O BIGBAND NETWORKS,
INC.*

*475 BROADWAY STREET
REDWOOD CITY CA 94063*

ISSUER

BigBand Networks, Inc.

CIK: **1381325** | IRS No.: **043444278** | State of Incorporation: **DE** | Fiscal Year End: **1231**

SIC: **3663** Radio & tv broadcasting & communications equipment

Mailing Address

*475 BROADWAY
REDWOOD CITY CA 94063*

Business Address

*475 BROADWAY
REDWOOD CITY CA 94063
650-995-5000*

**UNITED STATES SECURITIES AND EXCHANGE
COMMISSION**

Washington, D.C. 20549

OMB APPROVAL

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**INITIAL STATEMENT OF 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 Avimor Jacob (Last) (First) (Middle) C/O BIGBAND NETWORKS, INC., 475 BROADWAY STREET (Street) REDWOOD CITY, CA 94063 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 05/18/2010	3. Issuer Name and Ticker or Trading Symbol BigBand Networks, Inc. [BBND]	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) ____ Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) Senior Vice President, R&D	5. If Amendment, Date Original Filed (Month/Day/Year)
		6. Individual or Joint/Group Filing (Check applicable line) <input checked="" type="checkbox"/> Form Filed by One Reporting Person ____ Form Filed by More than One Reporting Person	

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	3,750	D	

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Employee Stock Option (right to buy)	06/11/2009 ⁽¹⁾	06/10/2018	Common Stock	95,000	\$5.38	D	
Restricted Stock Units	(2)	(2)	Common Stock	33,750	(3)	D	
Restricted Stock Units	(4)	(4)	Common Stock	36,000	(3)	D	

Explanation of Responses:

- The option vests at the rate of 25% of the shares subject to the option on the first anniversary of the date of grant, and 1/48th of the shares subject to the option each month thereafter, subject to the reporting person's continued service to the company.
- The restricted stock units vest in eight (8) equal semi-annual installments beginning on November 19, 2009. Vested shares will be delivered to the reporting person on or about each such vesting date.
- Each restricted stock unit represents a contingent right to receive one share of BBND common stock.

4. The restricted stock units vest in six (6) equal semi-annual installments beginning on August 24, 2010. Vested shares will be delivered to the reporting person on or about each such vesting date.

Signatures

/s/ Jacob Avimor by Julia Dumperth, Attorney-in-Fact

** Signature of Reporting Person

06/01/2010

Date

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

* 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 is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

BIGBAND NETWORKS, INC.
LIMITED POWER OF ATTORNEY -
SECURITIES LAW COMPLIANCE

The undersigned hereby constitutes and appoints each of Julia Dumperth, Robert Horton, Bryce Steeg and/or Phuong Quinby, signing singly, his true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer and/or director of BigBand Networks, Inc. (the "Company"), Form ID, Form 3, Form 4 and Form 5 (including any amendments thereto) in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete the execution of any such Form ID, Form 3, Form 4 and Form 5 and the timely filing of any such form with the United States Securities and Exchange Commission and any other authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, to the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in fact may approve in his or her discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary and proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or his or her substitute or substitutes, shall lawfully do or cause to be done by virtue of this power of attorney and the rights and powers herein granted.

The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934, as amended.

This Limited Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Form ID, Form 3, Form 4 and Form 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 27th day of May 2010.

By: /s/ Jacob Avimor
Jacob Avimor

INDIVIDUAL ACKNOWLEDGEMENT

This is to confirm that this 27 day of May, 2010, before me personally appeared Mr Jacob Avimor who proved to me on basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument is the person, or the entity upon behalf of which the person acted, executed the instrument.

Aviad Feldman, Adv
/s/ Aviad Feldman
[SEAL]