

OLUKOTUN ADEOYE Y

Form 4

August 27, 2008

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Check this box
if no longer
subject to
Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**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

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
OLUKOTUN ADEOYE Y

2. Issuer Name **and** Ticker or Trading
Symbol

BIO IMAGING TECHNOLOGIES
INC [BITI]

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction
(Month/Day/Year)

08/25/2008

☒ Director ☐ 10% Owner
☐ Officer (give title below) ☐ Other (specify below)

C/O BIO-IMAGING
TECHNOLOGIES, INC., 826
NEWTOWN-YARDLEY ROAD

(Street)

4. If Amendment, Date Original
Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check
Applicable Line)

☒ Form filed by One Reporting Person
☐ Form filed by More than One Reporting
Person

NEWTOWN, PA 18940

(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. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------------|---|---|--------------------------------------|--|--|--|---|
| | | | Code | V | Amount | (D) | Price |

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

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

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

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| 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. | | | |
|---|---|---|---|---|--|--|---|---------------------|--------------------|-----------------|-------------------------------------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Restricted Stock Units | (1) | 08/25/2008 | | A | | 10,000 | | (2) | (2) | Common Stock | 10,000 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

OLUKOTUN ADEOYE Y
C/O BIO-IMAGING TECHNOLOGIES, INC.
826 NEWTOWN-YARDLEY ROAD
NEWTOWN, PA 18940

X

Signatures

/s/ Adeoye Y.
Olukotun

08/27/2008

__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).

(1) Each restricted stock unit represents a contingent right to receive one share of common stock of Bio-Imaging Technologies, inc. (the "Company"), par value \$0.00025.

(2) Represents the automatic grant of 10,000 restricted stock units, granted pursuant to the Company's 2002 Stock Incentive Plan, as amended and restated, upon election to the Company's Board of Directors on August 25, 2008, determined by using the closing price on August 25, 2008. The restricted stock units shall vest as follows: 1/9 shall vest immediately upon election to the Company's Board of Directors, and the remaining 8/9 shall vest in equal installments upon completion of each successive month of service on the Board of Directors for the period ending on the date of the Company's next annual meeting of stockholders; provided, however, that the shares underlying the restricted stock units shall not be issued to the director until the director's cessation of service on the Board of Directors.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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