

Lanza Robert
Form 4
August 23, 2010

FORM 4

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

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Lanza Robert

2. Issuer Name and Ticker or Trading Symbol
ADVANCED CELL TECHNOLOGY, INC. [ACTC]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
33 LOCKE DRIVE

(Street)

3. Date of Earliest Transaction (Month/Day/Year)
08/20/2010

____ Director
 Officer (give title below) _____ Other (specify below)
Chief Scientific Officer

MARLBOROUGH, MA 01752

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

(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 or Price | | |
| Common Stock, par value \$0.001 | 08/20/2010 | | S | | 90,700 | D | \$ 0.076 27,862,480 |
| Common Stock, par value \$0.001 | 08/20/2010 | | S | | 196,181 | D | \$ 0.0755 27,666,299 |
| Common Stock, par value \$0.001 | 08/20/2010 | | S | | 25,000 | D | \$ 0.0752 27,641,299 |

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| | | | | | | | |
|--|------------|---|---------|---|--------------|------------|---|
| Common Stock, par value \$0.001 | 08/20/2010 | S | 29,600 | D | \$ 0.0751 | 27,611,699 | D |
| Common Stock, par value \$0.001 | 08/20/2010 | S | 258,519 | D | \$ 0.075 | 27,353,180 | D |

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 required to respond unless the form displays a currently valid OMB control number.

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(9-02)

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. 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. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Bene Own Follo Repor Trans (Instr |
|---|--|---|---|--------------------------------------|--|--|---|---|---|
|---|--|---|---|--------------------------------------|--|--|---|---|---|

| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
|------|---------------------|--------------------|-------|--|
| Code | V | (A) | (D) | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|--------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Lanza Robert 33 LOCKE DRIVE MARLBOROUGH, MA 01752 | | | Chief Scientific Officer | |

Signatures

/s/ Robert Lanza 08/23/2010
 **Signature of Date
 Reporting Person

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 is insufficient, *see* Instruction 6 for procedure.

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