Anderton Robert M Form 4 May 22, 2009

FORM 4

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

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Form 4 or Form 5 obligations may continue. See Instruction

Check this box

if no longer

subject to

Section 16.

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 * Anderton Robert M

2. Issuer Name and Ticker or Trading Symbol

Issuer

below)

BIOLASE TECHNOLOGY INC

(Check all applicable)

[BLTI]

(Last) (First) (Middle)

(Street)

3. Date of Earliest Transaction

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

5. Relationship of Reporting Person(s) to

(Month/Day/Year)

05/20/2009

4. If Amendment, Date Original

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

Filed(Month/Day/Year)

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

Person

IRVINE, CA 92618

4 CROMWELL

(City) (State) (Zip)

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

1.Title of Security (Instr. 3)

2. Transaction Date 2A. Deemed (Month/Day/Year)

Execution Date, if

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following

Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (I) (Instr. 4)

(Instr. 4)

(A) or Code V Amount (D) Price

Transaction(s) (Instr. 3 and 4)

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 Conversion Security or Exercise

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if any

4. 5. Number of TransactionDerivative Code Securities

6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of 8 **Underlying Securities** (Instr. 3 and 4)

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.		•	Instr. 3, 4,				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 1.24	05/20/2009		A		15,000		<u>(1)</u>	05/20/2019	Common Stock	15,000

Reporting Owners

Reporting Owner Name / Address	Relationships						
•	Director	10% Owner	Officer	Other			
Anderton Robert M 4 CROMWELL IRVINE, CA 92618	X						

Signatures

/s/ Frederick M. Capallo, Attorney-in-Fact for Robert M.
Anderton 05/22/2009

**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).

Each automatic option is immediately exercisable for all of the option shares. However, any shares purchased under such option are subject to repurchase by the Issuer, at the lower of the exercise price paid per share or the fair market value per share (determined at the time of repurchase), should the Reporting Person cease Board service prior to vesting of those shares. The shares vest, and the Company's right of repurchase lapses, in four successive quarterly installments upon the Reporting Person's completion of each quarter of service as a non-employee director measured from the grant date. The shares subject to the option grant will immediately vest in full if certain changes in control or ownership occur or if the Reporting Person dies or becomes disabled while serving as a director.

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.

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