Stevenson Mark
Form 4
November 19, 2008

FORM 4

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

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 Number:	3235-0287
Expires:	January 31, 2005
Estimated average burden hours per response...	0.5

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
Stevenson Mark

(Last) (First) (Middle)

APPLIED BIOSYSTEMS INC., 850 LINCOLN CENTRE DRIVE

(Street)

FOSTER CITY, CA 94404

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading Symbol
APPLIED BIOSYSTEMS INC. [ABI]

3. Date of Earliest Transaction (Month/Day/Year)
11/17/2008

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

_____ Director _____ 10% Owner
__X__ Officer (give title below) _____ Other (specify below)
President and COO

6. Individual or Joint/Group Filing(Check Applicable Line)
_X_ Form filed by One Reporting Person
___ Form filed by More than One Reporting Person

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	(A) or (D)	Price			
Applied Biosystems Group Common Stock	11/17/2008		M		2,875	A	$ 15.54	14,824	D	
Applied Biosystems Group Common Stock	11/17/2008		M		5,000	A	$ 15.54	19,824	D	
	11/17/2008		M		7,500	A	$ 20.185	27,324	D	

Applied Biosystems Group Common Stock									
Applied Biosystems Group Common Stock	11/17/2008		M	45,000	A	$ 21.475	72,324	D	
Applied Biosystems Group Common Stock	11/17/2008		S	43,823	D	$ 29.2975 (1)	28,501	D	

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

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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)

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 Amoun Underlying Securiti (Instr. 3 and 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Ar or Nu of
Applied Biosystems Group Employee Stock Options-Right to Buy	$ 15.54	11/17/2008		M			2,875	(2)	03/24/2013	Applied Biosystems Group Common Stock	2
Applied Biosystems Group Employee Stock Options-Right	$ 15.54	11/17/2008		M			5,000	(3)	03/24/2013	Applied Biosystems Group Common Stock	5

to Buy								
Applied Biosystems Group Employee Stock Options-Right to Buy	$ 20.185	11/17/2008	M	7,500	(4)	06/17/2014	Applied Biosystems Group Common Stock	7
Applied Biosystems Group Employee Stock Options-Right to Buy	$ 21.475	11/17/2008	M	45,000	(5)	06/02/2015	Applied Biosystems Group Common Stock	45

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Stevenson Mark APPLIED BIOSYSTEMS INC. 850 LINCOLN CENTRE DRIVE FOSTER CITY, CA 94404			President and COO	

Signatures

/s/ Thomas P. Livingston, Attorney-In-Fact for Mark Stevenson	11/19/2008
**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) The price reported is the weighted average sale price in open market transactions at prices ranging from $29.25 to $29.3750. The reporting person undertakes to provide upon request by the Securities and Exchange Commission staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

(2) These options originally became exercisable in four equal annual installments, commencing March 24, 2004. Effective January 20, 2005, the vesting of all of these options was accelerated. However, shares received upon the exercise of accelerated options were subject to a restriction on transfer (covering sales, gifts, pledges, and any other method of disposition) that remained in effect for some of the shares until March 24, 2007.

(3) These options originally became exercisable on or after the earlier of (a) March 24, 2008 or (b) two years after certain stock price targets were attained. The vesting of these options was accelerated effective June 2, 2005. However, shares received upon the exercise of accelerated options were subject to a restriction on transfer (covering sales, gifts, pledges, and any other method of disposition) that was to remain in effect until the earlier of the original vesting date of those options or termination of the reporting person's employment with the issuer.

(4) These options originally became exercisable in four equal annual installments, commencing June 17, 2005. Effective January 20, 2005, the vesting of all of these options was accelerated. However, shares received upon the exercise of accelerated options were subject to a restriction on transfer (covering sales, gifts, pledges, and any other method of disposition) that remained in effect for some of the shares

until June 17, 2008.

(5) These options were fully vested and exercisable as of the grant date, June 2, 2005. However, shares acquired upon the exercise of these options were subject to a restriction on transfer (covering sales, gifts, pledges, and any other method of disposition). The transfer restriction was scheduled to lapse on 25% of the shares covered by the grant on each of the first four anniversaries of the grant date. Also, the transfer restriction would have lapsed in full upon termination of employment for any reason. However, all remaining restrictions were terminated on November 12, 2008.

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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