

O'Donnell Mark Sean
 Form 4
 September 14, 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

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 *
 O'Donnell Mark Sean

2. Issuer Name and Ticker or Trading Symbol
 Life Technologies Corp [LIFE]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 5791 VAN ALLEN WAY
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 09/10/2009

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 SVP, Global Ops & Services

CARLSBAD, CA 92008

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)
				(A) or (D)	Price		
Common Stock <u>(1)</u>	09/10/2009	09/10/2009	M	4,349 A	\$ 17.87 13,180	D	
Common Stock <u>(2)</u>	09/10/2009	09/10/2009	M	8,480 A	\$ 23.21 21,660	D	
Common Stock <u>(3)</u>	09/10/2009	09/10/2009	M	5,436 A	\$ 24.69 27,096	D	
Common Stock <u>(4)</u>	09/10/2009	09/10/2009	M	5,436 A	\$ 24.69 32,532	D	
Common Stock <u>(5)</u>	09/10/2009	09/10/2009	S	3,449 D	\$ 46.86 29,083	D	

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Common Stock <u>(5)</u>	09/10/2009	09/10/2009	S	300	D	\$ 46.865	28,783	D
Common Stock <u>(5)</u>	09/10/2009	09/10/2009	S	600	D	\$ 46.87	28,183	D
Common Stock <u>(6)</u>	09/10/2009	09/10/2009	S	7,780	D	\$ 46.86	20,403	D
Common Stock <u>(6)</u>	09/10/2009	09/10/2009	S	500	D	\$ 46.865	19,903	D
Common Stock <u>(6)</u>	09/10/2009	09/10/2009	S	200	D	\$ 46.87	19,703	D
Common Stock <u>(7)</u>	09/10/2009	09/10/2009	S	5,136	D	\$ 46.86	14,567	D
Common Stock <u>(7)</u>	09/10/2009	09/10/2009	S	300	D	\$ 46.87	14,267	D
Common Stock <u>(8)</u>	09/10/2009	09/10/2009	S	4,736	D	\$ 46.86	9,531	D
Common Stock <u>(8)</u>	09/10/2009	09/10/2009	S	200	D	\$ 46.865	9,331	D
Common Stock <u>(8)</u>	09/10/2009	09/10/2009	S	500	D	\$ 46.87	8,831	D

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

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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. Amount or Number of Shares	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Options <u>(1)</u>	\$ 17.87	09/10/2009	09/10/2009	M	4,349	11/21/2008	03/24/2013	Common Stock	4,349

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Stock Options (2)	\$ 23.21	09/10/2009	09/10/2009	M	8,480	11/21/2008	06/17/2014	Common Stock	8,480
Stock Options (3)	\$ 24.69	09/10/2009	09/10/2009	M	5,436	11/21/2008	06/02/2015	Common Stock	5,436
Stock Options (4)	\$ 24.69	09/10/2009	09/10/2009	M	5,436	06/02/2006	06/02/2015	Common Stock	5,436

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
O'Donnell Mark Sean 5791 VAN ALLEN WAY CARLSBAD, CA 92008			SVP, Global Ops & Services	

Signatures

/s/ David
Szekeres, POA

09/14/2009

**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).

- (1) Options exercised from Grant #17222
- (2) Options exercised from Grant #21103
- (3) Options exercised from Grant #A0020503
- (4) Options exercised from Grant #B0020503
- (5) Common stock sold from options exercised from Grant #17222
- (6) Common stock sold from options exercised from Grant #21103
- (7) Common stock sold from options exercised from Grant #A0020503
- (8) Common stock sold from options exercised from Grant #B0020503

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