

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
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1. Name and Address of Reporting Person * <u>Chatfield Steven</u> (Last) (First) (Middle) 2273 RESEARCH BLVD. SUITE 400 (Street) ROCKVILLE MD 20850 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Emergent BioSolutions Inc. [EBS]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>President, EPD UK, CSO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>08/16/2007</u>	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> 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			
Common Stock	08/16/2007		M		19,180	A	\$2.74	19,180	D	
Common Stock ⁽¹⁾	08/16/2007		S		180	D	\$7.89	19,000	D	
Common Stock	08/16/2007		S		200	D	\$7.95	18,800	D	
Common Stock	08/16/2007		S		100	D	\$7.96	18,700	D	
Common Stock	08/16/2007		S		100	D	\$7.98	18,600	D	
Common Stock	08/16/2007		S		200	D	\$7.99	18,400	D	
Common Stock	08/16/2007		S		900	D	\$8	17,500	D	
Common Stock	08/16/2007		S		100	D	\$8.01	17,400	D	
Common Stock	08/16/2007		S		200	D	\$8.02	17,200	D	
Common Stock	08/16/2007		S		300	D	\$8.04	16,900	D	
Common Stock	08/16/2007		S		200	D	\$8.05	16,700	D	
Common Stock	08/16/2007		S		100	D	\$8.06	16,600	D	
Common Stock	08/16/2007		S		1,100	D	\$8.07	15,500	D	
Common Stock	08/16/2007		S		100	D	\$8.12	15,400	D	
Common Stock	08/16/2007		S		800	D	\$8.14	14,600	D	
Common Stock	08/16/2007		S		1,000	D	\$8.15	13,600	D	
Common Stock	08/16/2007		S		600	D	\$8.16	13,000	D	
Common Stock	08/16/2007		S		500	D	\$8.17	12,500	D	
Common Stock	08/16/2007		S		701	D	\$8.18	11,799	D	
Common Stock	08/16/2007		S		600	D	\$8.19	11,199	D	
Common Stock	08/16/2007		S		399	D	\$8.2	10,800	D	
Common Stock	08/16/2007		S		300	D	\$8.21	10,500	D	
Common Stock	08/16/2007		S		900	D	\$8.22	9,600	D	
Common Stock	08/16/2007		S		600	D	\$8.23	9,000	D	
Common Stock	08/16/2007		S		600	D	\$8.25	8,400	D	
Common Stock	08/16/2007		S		900	D	\$8.26	7,500	D	
Common Stock	08/16/2007		S		200	D	\$8.28	7,300	D	
Common Stock	08/16/2007		S		200	D	\$8.29	7,100	D	
Common Stock	08/16/2007		S		1,679	D	\$8.32	5,421	D	

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			
Common Stock	08/16/2007		S		1,420	D	\$8.34	4,001	D	

**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 Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Employee Stock Option (right to buy)	\$2.74	08/16/2007		M			19,180	08/16/2007	02/09/2010	Common Stock	19,180	\$0.00	0	D	

Explanation of Responses:

1. Pursuant to a Rule 10b5-1 trading plan for Emergent BioSolutions Inc. common stock administered by Merrill Lynch.

Remarks:

This is form 1 of 2

/s/ R.DON ELSEY,
ATTORNEY-IN-FACT

08/20/2007

** Signature of Reporting Person

Date

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

* 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.

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 Number.