FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

**OMB APPROVAL** OMB Number: Estimated average burden hours per response: 0.5

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

Name and Address of Reporting Person*  LYONS GARY A					2. Issuer Name and Ticker or Trading Symbol NEUROCRINE BIOSCIENCES INC [ NBIX ]								eck all applic	cable) or	Person(s) to Is	wner	
(Last) (First) (Middle) NEUROCRINE BIOSCIENCES, INC. 12780 EL CAMINO REAL					3. Date of Earliest Transaction (Month/Day/Year) 09/10/2010								below)		below)		
(Street) SAN DIEGO CA 92130				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	Individual or Joint/Group Filing (Check Applicable Line)      Y Form filed by One Reporting Person  Form filed by More than One Reporting Person				
(City) (State) (Zip)																	
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D					on Year)	CURITIES ACC 2A. Deemed Execution Date, f any (Month/Day/Year		3. Transacti Code (Ins	4. Sec	4. Securities Acquired (ADisposed Of (D) (Instr. 3		(A) or	5. Amou Securitie Benefici Owned F	nt of 6	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	/ Amou	nt (	(A) or (D) Price		Reported Transact (Instr. 3	tion(s)		(Instr. 4)	
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/Yes	Code	action (Instr.	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)		of Se Unde Deriv	7. Title and Amoun 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)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiratio Date	n Title	0 N 0	umber					
Stock Option (right to buy)	\$48.51	09/10/2010		D			57,659	06/22/2003	05/22/20	Comi Stoo		7,659	(1)	0	D		
Stock Option (right to buy)	\$57.51	09/10/2010		D			9,355	06/26/2004	05/26/20	Comi Stoo		9,355	(1)	0	D		
Stock Option (right to buy)	\$40.39	09/10/2010		D			51,435	03/18/2005	02/18/20	15 Comr Stoo		1,435	(1)	0	D		
Stock Option (right to	\$60.95	09/10/2010		D			24,335	02/19/2006	01/19/20	13 Comr Stoo		4,335	(1)	0	D		

## **Explanation of Responses:**

1. The option was cancelled by mutual agreement of the reporting person and Neurocrine Biosciences, Inc. The reporting person received \$100 as total consideration for all cancellations.

## Remarks:

Margaret E. Valeur-Jensen, By Power of Attorney

09/14/2010

\*\* 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.