

OMB APPROVAL	
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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

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

1. Name and Address of Reporting Person* <u>Hahn Mark W</u> (Last) (First) (Middle) 6340 QUADRANGLE DRIVE SUITE 100 (Street) CHAPEL HILL NC 27517 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>CEMPRA, INC. [CEMP]</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>EVP and CFO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>03/20/2012</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	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			

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)	\$7.62	03/20/2012		A		25,000		(1)	03/20/2022	Common Stock	25,000	\$0.00	25,000	D	
Employee Stock Option (Right to Buy)	\$2.09							(2)	02/02/2020	Common Stock	46,890		46,890	D	
Employee Stock Option (Right to Buy)	\$2.09							(3)	07/28/2020	Common Stock	7,643		7,643	D	
Employee Stock Option (Right to Buy)	\$2.09							(4)	12/08/2020	Common Stock	9,074		9,074	D	

Explanation of Responses:

- The option vests in full on 03/20/13.
- The option vests according to the following schedule: 1/48th of the shares vest at the end of each month over the course of 48 months, beginning 30 days after 09/25/09.
- The option vests according to the following schedule: 1/48th of the shares vest at the end of each month over the course of 48 months, beginning 30 days after 04/26/10.
- The option vests according to the following schedule: 1/48th of the shares vest at the end of each month over the course of 48 months, beginning 30 days after 12/08/10.

Remarks:

/s/ Alexander M. Donaldson 03/22/2012
by Power of Attorney

** 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.