FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	OMB APPROVAL

OMB Number:	3235-0287
Estimated average b	urden
l	0.5

## 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

				,	JI Sect	1011 30(11) 0	i lile i	nvesiment C	Ullipally Act	01 1940						
1. Name and Address of Reporting Person*  VAN NOSTRAND ROBERT L					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
				-				,		-		X Directo	r	10% Ov	ner	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 12/31/2018						$\dashv$	Officer (give title Other (spe below) below)			pecify	
C/O YIE	LD10 BIO	SCIENCE, INC.														
19 PRESIDENTIAL WAY				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street)												,	led by One Per	orting Derect	,	
WOBURN MA 01801											Form filed by More than One Reporting					
(City)	(S	tate)	(Zip)									Person				
		,														
		Tal	ole I - Non-D	Derivativ	/e Se	curities	Acc	quired, Di	sposed o	f, or Ber	neficiall	y Owned				
Date				. Transactio Date Month/Day/\	Execution Date		Date,	, Transaction Disposed O Code (Instr. 5)		ties Acquired (A) or I Of (D) (Instr. 3, 4 a		5. Amour Securitie Beneficia Owned F	es Forn ally (D) o Following (I) (Ir	n: Direct or Indirect ostr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)		instr. 4)	
		,	Table II - De					ired, Dis options,				Owned	,	,		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	(Month/Day/Year) e of vative	3A. Deemed Execution Date if any (Month/Day/Ye	Code		Derivative		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)	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	Amount or Number of Shares		(Instr. 4)			
Stock Option (right to buy)	\$0.83	12/31/2018		A		5,924 <sup>(1)</sup>		12/31/2018	12/31/2028	Common Stock	5,924	\$0.76	5,924	D		

## Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$4,531 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the fourth quarter of 2018.

/s/ Megan N. Gates, attorneyin-fact

01/03/2019

\*\* 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.