FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number: 3235-0								
Estimated average burden								
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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).

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* 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)					
					11111	DIO DI	000	,,,,,,,	<u>_, _</u>	<u>.110.</u> [1	LLIV J		X Director	r		10% Ow	ner	
(Last) C/O YIE	`	irst) SCIENCE, INC.	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/24/2017								Officer below)	(give title		Other (s below)	pecify	
19 PRESIDENTIAL WAY				ŀ	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable						
(Street) WOBURN MA 01801										Line	Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(S	tate)	(Zip)															
		Ta	ble I - Non-	-Deriva	tive S	ecurities	Acc	uired,	Dis	posed of	, or Ber	eficiall	y Owned					
Date				2. Transac Date (Month/Da	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 2			d (A) or r. 3, 4 and	Beneficia Owned F	s ally ollowing	Form:	Direct I Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price	Reported Transacti (Instr. 3 a	ion(s)			Instr. 4)		
Common Stock 05/24/				2017	017		A		43,155(1) A	\$0	46,	5,488		D			
			Table II - D			curities <i>A</i> Ils, warra		,		,		•	Owned					
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)	Coc	nsaction le (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)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported	e s lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				Cod	le V	(A)	(D)	Date Exercisa	ble	Expiration Date	Title	Amount or Number of Shares		Transactio (Instr. 4)	on(s)			
Stock Option (right to	\$0.42	05/24/2017		A		25,000 ⁽²⁾		05/24/20)18	05/24/2027	Common Stock	25,000	\$0	25,000	0	D		

Explanation of Responses:

- 1. These shares were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2017.
- 2. These options were issued to the Reporting Person as the annual option grant to non-employee directors pursuant to the Issuer's Director Compensation Policy for services to be rendered to the Issuer as a member of its Board of Directors and/or a committee thereof.

/s/ Megan N. Gates, attorney-in-fact 05/26/2017

** 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.