FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

ton, D.C. 20549 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

					or Sect	ion 30(h) o	f the	Investment C	ompany Act	of 1940						
1. Name and Address of Reporting Person* SHAULSON JOSEPH H						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
SHAULSUN JUSEPH H								,		-	:	V Directo	r	10% Ov	/ner	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 12/31/2018					\dashv	Officer (give title Other (spec below) below)			pecify		
C/O YIE	LD10 BIO	SCIENCE, INC.		12/31/2010												
19 PRES	SIDENTIAL	, WAY		<u> </u>												
					. If Ame	endment, D	ate o	f Original File	d (Month/Da	y/Year)	6. Ir Line		oint/Group Filin	g (Check App	licable	
(Street)											:	K Form fi	led by One Rep	orting Persor	1	
WOBUR	RN MA		01801										Form filed by More than One Reporting Person			
(City)	(S	tate)	(Zip)													
		Tal	ole I - Non-	Derivat	ve Se	curities	Ac	quired, Di	sposed o	f, or Ber	neficiall	y Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,			Code (Instr. 5)			d (A) or r. 3, 4 and	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 Transacti (Instr. 3 a	ion(s)		(Instr. 4)	
			Table II - De (e					uired, Disp , options,				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	rcise (Month/Day/Year) if any (Month/Day/Year) tive		Code	saction e (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 of derivative Securities Beneficially Owned Following Reported	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		Transaction(s) (Instr. 4)			
Stock Option (right to buy)	\$0.83	12/31/2018		A		9,805 ⁽¹⁾		12/31/2018	12/31/2028	Common Stock	9,805	\$0.76	9,805	D		

Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$7,500 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, attorney-

01/03/2019

in-fact

** 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.