FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OIVID APPROVAL									
OMB Number:	3235-0287								
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hours per response:	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 or Section 30(h) of the Investment Company 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]						ck all applica Director		10% Ov	ner	
					3. Date of Earliest Transaction (Month/Day/Year) 05/22/2019						Officer (below)	give title	Other (s below)	pecify	
19 PRESIDENTIAL WAY					4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable				
(Street) WOBURN MA 01801									Line)						
(City)	(S	tate)	(Zip)												
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned														
Date			. Transact ate Month/Day	Execution Date,		Code (Instr. 5)			5. Amoun Securities Beneficia Owned Fo Reported	s Form Illy (D) o ollowing (I) (In	n: Direct r Indirect estr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code V Amount (A) or (D)				Price	Transaction(s) (Instr. 3 and 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	xercise (Month/Day/Year) e of vative	3A. Deemed Execution Date, if any (Month/Day/Year)	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)		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)	\$0.9	05/22/2019		A		10,000(1)		(2)	05/22/2029	Common Stock	10,000	\$0	10,000	D	

Explanation of Responses:

- 1. 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.
- 2. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/22/19, beginning on 8/22/2019 and ending on 5/22/2023.

/s/ Megan N. Gates, attorney-in-05/23/2019 **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.