FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number: 3235-0287								
Estimated average burden								
hours per response:								

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

Name and Address of Reporting Person* <u>Sinskey Anthony J</u>				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]								Relationship leck all appli X Directo	cable)	Perso	on(s) to Issu			
C/O YIELD10 BIOSCIENCE, INC.				3. Date of Earliest Transaction (Month/Day/Year) 03/31/2022								Officer below)	(give title		Other (s below)	pecify		
19 PRESIDENTIAL WAY				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) WOBUR	ın M	A	01801		,						- 1	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)															
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Trans Date (Month/				action 2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr. 5)				Benefici	s Form ally (D) o following (I) (In		Direct I Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code	v	Amount	(A) or (D)	Price	Transac	Transaction(s) (Instr. 3 and 4)			msu. 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)	ative Conversion Date Execution Date, Tr ity or Exercise (Month/Day/Year) if any Co		ransa Code (I	ransaction Derivative ode (Instr. Securities			6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) Securities Underlying Derivative Sec (Instr. 3 and 4)			of s ig e Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
				c	Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares	mount (Instr. 4)		/ii(3)		
Stock Option (right to buy)	\$5.3	03/31/2022			A		1,566 ⁽¹⁾		03/31/202	22	03/31/2032	Common Stock	1,566	\$4.99	1,566		D	

Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$7,813 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2022.

/s/ Megan N. Gates, attorney-

04/04/2022

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.