			(Month/Day/Year)	8) Code	v	Amount	(A) or (D)	Price	Owned Follow Reported Transaction(s) (Instr. 3 and 4)	ving (l) (Instr. 4)		Ownership (Instr. 4)			
1. Title of Security (Instr. 3) Date (Month)				2A. Deemed Execution Date, if any			4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)		(A) or 3, 4 and	5. Amount of Securities Beneficially	6. Ownership Form: Direct (D) or Indirect	Form: Direct (D) or Indirect	7. Nature o Indirect Beneficial		
Т	able I - Nor	n-Derivat	ive S	ecurities Acqu	uired,	Disp	oosed of, c	or Bene	eficially	Owned					
(City) (State)	(Zip)														
WOBURN MA	01801									Form filed by More than One Reporting Person					
(Street)											Line) X Form filed by One Reporting Person				
19 PRESIDENTIAL WAY				endment, Date of (	Driginal	Filed (	(Month/Day/Ye		6. Individual or Joint/Group Filing (Check Applicable						
(Last) (First) C/O YIELD10 BIOSCIENCE, IN		3. Date of Earliest Transaction (Month/Day/Year) 05/24/2021							below)		below	)			
VAN NOSTRAND ROBER							X	Officer (give title Oth							
1. Name and Address of Reporting Person*				r Name <b>and</b> Ticker			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
Section 10. 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									Estimated average burden hours per response:					
Check this box if no longer subject to		MENT OF CHANGES IN BENEFICIAL OWNER								OMB	Number:	3235-0287			
				Washingt				OMB APPROVAL							
SEC Form 4 FORM 4	UNITED	) STAT	ES S	ECURITIES	S ANI	DE	XCHANG	E CO	OMMIS	SION					

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puis, cails, warrants, options, convertible securities)														
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)	4. 5. Number of Derivative Securities   8) 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			6. Date Exerc Expiration Da (Month/Day/Y	ate	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)	\$7.96	05/24/2021		A		5,000 <sup>(1)</sup>		(2)	05/24/2031	Common Stock	5,000	\$0	5,000	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 5/24/2021, beginning on 8/24/2021 and ending on 5/24/2025.

## /s/ Megan N. Gates, attorney-

in-fact

<u>05/26/2021</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $\ast$  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.