FORM 4

☐ Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

☐ Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

OMB APPROVAL
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 *					2. Issuer Name and Ticker or Trading Symbol									5. Relationship of Reporting Person(s) to Issuer			
L				т	A TZ	E CH	DE D	A NIC	ΩD	ът	NC	r	(Check all app	olicable)			
Werdein Jeffrey M.					LAKE SHORE BANCORP, INC. [LSBK]									Director 10% Owner			
(Last) (First) (Middle)					3. Date of Earliest Transaction (MM/DD/YYYY)								X_ Officer (give title below) Other (specify below)				
(East) (1113)	(14	nadic)									,	EVP - Comm	ercial Di	vision		
C/O 31 EAS	T FOUR	TH STI	REET				4/	23/20)24								
	(Stre	eet)		4.	If A	mendme	nt, Date	Origin	nal F	iled (1	MM/D	D/YYYY)	6. Individual o	or Joint/G	roup Filing	(Check Appl	icable Line)
DUNKIRK	NV 1404	R											V Form filed b	v One Penor	ting Person		
DUNKIRK, NY 14048 (City) (State) (Zip)												X Form filed by One Reporting Person Form filed by More than One Reporting Person					
(6	ony) (bu	<i>iic)</i> (2	лр)														
			Table I -	Non-De	rivat	tive Sec	urities A	cquire	ed, I	Dispo	sed o	f, or Be	neficially Owne	ed			
1. Title of Security			2.	Trans. Date		Deemed	3. Trans.	Code								7. Nature	
(Instr. 3)					Execution Date, if any	(Instr. 8)	or Disposed of (D (Instr. 3, 4 and 5)			Following Reported Transaction(s) (Instr. 3 and 4)			Ownership of Indirect Form: Beneficial				
												-				Direct (D) or Indirect	Ownership (Instr. 4)
							6.1		١.		(A) c					(I) (Instr.	(msu. 1)
Common Stock				4/23/2024	1		Code A	V	+	34 (1)	(D) A	Price \$0			18,936	4) D	
Common Stock				4/23/2024	-		A		2,5.	34 122	A	30					By ESOP
Common Stock															4,530 (2)	1	by ESOP
	Tal	ole II - De	rivative S	ecurities	Ben	eficially	Owned	(e.g.,	puts	s. call	s. wa	ırrants.	options, conver	tible secu	ırities)		
1. Title of Derivate	2.	3. Trans.	3A. Deemed			5. Number		6. Date	•				d Amount of		9. Number of	10.	11. Nature
Security (Instr. 3)	Conversion or Exercise	Date	Execution Date, if any	(Instr. 8)	B) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Expiration Date Securities Derivative (Instr. 3 an			(Instr. 5)		Securities Beneficially	Derivative O	of Indirect Beneficial		
(msu. 3)	Price of Derivative Security		Date, if any				of (D)								Ownership		
												Owned Following	Security: Direct (D)	(Instr. 4)			
								Date		Expira	tion	Title	Amount or Number of		Reported Transaction(s)	or Indirect	
				Code	V	(A)	(D)	Exercis	sable	Date		Title	Shares		(Instr. 4)	(1) (IIISti. 4)	
Stock Option (Right to Buy)	\$14.38							(3))	10/21/	2026	Common Stock	17,073		17,073	D	

Explanation of Responses:

- (1) Shares of restricted stock vest at a rate of 25% per year commencing on April 23, 2025
- (2) These shares were acquired pursuant to an Employee Stock Ownership Plan Allocation
- (3) Options are fully vested

Reporting Owners

Reporting Owner Name / Address	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Werdein Jeffrey M.									
C/O 31 EAST FOURTH STREET			EVP - Commercial Division						
DUNKIRK, NY 14048									

Signatures

/s/ Taylor M. Gilden, Pursuant to Power of Attorney

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.

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