

☐ 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 OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

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	2. Issuer Name and Ticker or Trading Symbol							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
Sun ruge ne min ru					LAKE SHORE BANCORP, INC. [LSBK]							_X_ Director 10% Owner						
(Last) (First) (Middle)				-	3. Date of Earliest Transaction (MM/DD/YYYY)							Officer (give title below) Other (specify below) Chairman of the Board						
31 EAST FOURTH STREET						4/25/2024												
	(Str	eet)		4	4. If A	mendn	nent, Date	e Or	iginal F	iled (MM	1/DD/YY	YYY)	6. Individual o	or Joint/G	roup Fil	ling (Check App	licable Line)
DUNKIRK,													_X _ Form filed by Form filed by				erson	
(0	City) (St	ate) (Z	Cip)															
			Table I -	- Non-D	eriva	tive Se	curities A	4cq	uired, I	Disposed	d of, or	Bene	eficially Owne	d				
1. Title of Security (Instr. 3)			2. Tr	2. Trans. Date			3. Trans. Code (Instr. 8)		or Disposed of (D)			Follo	Amount of Securities Beneficially Owned 6. 7. Nature of ollowing Reported Transaction(s) Ownership Indirect nstr. 3 and 4) Form: Beneficial Direct (D) Ownership				rect eficial	
							Code	v	Amount	(A) or (D)	Price					or Inc (I) (Iı 4)	lirect (Inst nstr.	r. 4)
Common Stock			4/2	5/2024			Р		3,000	Α	\$10.814				18,536	Ι		
Common Stock															905	1	for	Custodian ndchildren
	Tal	ole II - De	erivative S	ecuriti	es Bei	neficial	ly Owne	d (<i>e</i> .	. <i>g</i> ., puts	s, calls,	warrai	nts, oj	ptions, conver	tible secu	rities)			
1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	Date E	3A. Deemed Execution Date, if any	(Instr. 8		de 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)					Secur Deriv		derlying Derivative curity Security		9. Number of derivative Securities Beneficially Owned Following		10. Ownership Form of Derivative Security: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Security			Cod	v	(A)	(D)	Da Ex	ite ercisable	Expiration Date	n Title		Amount or Number of Shares		Reported Transaction(s) (Instr. 4)		or Indirect	
Stock Option (Right to Buy)	\$10.69								<u>(1)</u>	4/22/203	4	nmon ock	1,897		12	2,646	D	

(2)

10/21/2026

Common

Stock

10,749

12,646

D

Explanation of Responses:

\$14.38

(1) Stock options vest at a rate of 20% per year commencing on April 23, 2025

(2) Options are fully vested

Reporting Owners

Stock Option

(Right to Buy)

Penarting Owner Name / Address	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Sanvidge Kevin M.								
31 EAST FOURTH STREET	Х			Chairman of the Board				
DUNKIRK, NY 14048								

Signatures

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

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 control number.