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

FORM 8-K

CURRENT REPORT
Pursuant To Section 13 Or 15(d) Of The Securities Exchange Act Of 1934



Date of report (Date of earliest event reported) $\underline{January\ 15,2020}$

PHOTRONICS, INC.

(Exact name of registrant as specified in its charter)

Connecticut	06-0854886		
(State or other jurisdiction of incorporation)	or other jurisdiction of incorporation) (Commission File Number) (IRS Employer Identification		
15 Secor Road, Brookfield, CT		06804	
	(Address of Principal Executive Offices)	(Zip Code)	
	Registrant's Telephone Number, including area coo	c(203) 775-9000	
	(Former name or former address, if changed since las	t report)	
Check the appropriate box below if the Form 8-K filing is intended to	simultaneously satisfy the filing obligation of the registrant under any o	f the following provisions:	
☐ Written communications pursuant to Rule 425 under the Secur Soliciting material pursuant to Rule 14a-12 under the Exchang ☐ Pre-commencement communications pursuant to Rule 14d-2(b ☐ Pre-commencement communications pursuant to Rule 13e-4(c ☐ Indicate by check mark whether the registrant is an emerging growth chapter).	re Act (17 CFR 240.14a-12) 1) under the Exchange Act (17 CFR 240.14d-2(b)) 1) under the Exchange Act (17 CFR 240.13e-4(c))	of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this	
Emerging growth company \square			
If an emerging growth company, indicate by check mark if the registr Exchange Act. \Box	ant has elected not to use the extended transition period for complying w	ith any new or revised financial accounting standards provided pursuant to Section 13(a) of the	
Securities registered pursuant to Section 12(b) of the Act:			
Title of each class	Trading Symbol(s)	Name of each exchange on which registered	
COMMON STOCK, \$0.01 par value per share PLA	AB	NASDAQ Global Market	

Item 7.01. Regulation FD.

On January 15, 2020, Photronics, Inc. (the "Company") will present at the 22nd Annual Needham Growth Conference. The presentation to be used during the event is attached as Exhibit 99.1 to this Form 8-K. The presentation will also be available via webcast. Interested parties may register for the webcast through the Investors section of the Company's website at www.photronics.com.

In accordance with General Instruction B.2 of Form 8-K, the information in this Current Report on Form 8-K, including Exhibit 99.1, shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liability of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, except as shall be expressly set forth by specific reference in such a filing.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

99.1 Presentation dated January 15, 2020

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

PHOTRONICS, INC. (Registrant)

By: <u>/s/ Richelle E. Burr</u>
Name: Richelle E. Burr
Title: Chief Administrative Officer

Date: January 15, 2020



Photronics, Inc. Global Leader in the Merchant Photomask Industry

22nd Annual Needham Growth Conference January 15, 2020



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Safe Harbor Statement

This presentation and some of our comments may contain projections or other forward-looking statements regarding future events, our future financial performance, and/or the future performance of the industry. These statements are predictions, and contain risks and uncertainties. Actual events or results may differ materially from those presented. These statements include words like "anticipate", "believe", "estimate", "expect", "forecast", "may", "plan", "project", "in our view" or the negative thereto. We cannot guarantee the accuracy of any forecasts or estimates, and we are not obligated to update any forward-looking statements if our expectations change. If you would like more information on the risks involved in forward-looking statements, please see the documents we file from time to time with the Securities and Exchange Commission.



A Compelling Investment Thesis

Global leader in merchant photomask industry

- Delivering growth by leveraging core competencies: Operational Excellence, Low Cost Producer, Technology Leadership, Customer Intimacy
- Growing more quickly than the market

► Technology aligned with secular growth trends

- China industry expansion (IC & FPD) Made in China 2025
- Technology inflection from LCD to AMOLED
- Rapid expansion of G10.5+ panel capacity

Investment strategy drives earnings growth

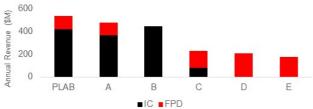
- Strategic investments bring top-line growth
- Operating leverage creates margin expansion
- Increasing free cash flow to fund growth investments and share repurchase



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Photronics at a Glance

Largest Merchant Photomask Manufacturer



Converting Investments Into Revenue (\$M)





Financial Strength to Fund Investments (\$M)



Unmatched Global Footprint
11 Strategically Located Manufacturing Facilities



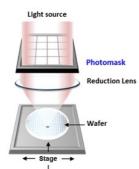
Photomasks: Essential for Electronics Manufacturing

Component Photomask Manufacturing End User

BRINGS DESIGN TO MANUFACTURING FLOOR











Core Competencies Underpin Sustainable Growth

Low Cost Producer

Cost control Supply chain optimization

Operational Excellence

Flexible delivery High yields

Customer Intimacy

Trusted partner Wafer yield enhancement

Technology Leader

Process know-how Advanced PoR



Repositioned for Growth

▶ China

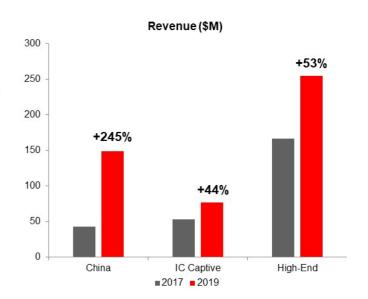
- Total TAM ~\$700M by 2022
- Region with strongest growth potential
- Supported by new manufacturing facilities since 2019

► IC Captive

- Approximately \$2.6B TAM
- We are seen as trusted partner
- Commitments improve sustainability

High-end revenue growth

- High value and high growth
- Supports China & captive initiatives



Note: classifications in graph above are not distinct; revenue related to certain products may appear in more than one category



Driving Sustainable, Profitable Growth

Future (2022 and beyond)

Entering strategic photomask partnerships
Exploring adjacent market M&A

Recent and Present (2019 - 2021)

Investing in China

- Phase I 2019-2020
- Phase II 2020-2021

Leveraging FPD technology inflections

Past (2017 – 2018)

Repositioned the company Grew high-end revenue



Developing and Growing China Business



We already have growing business in China

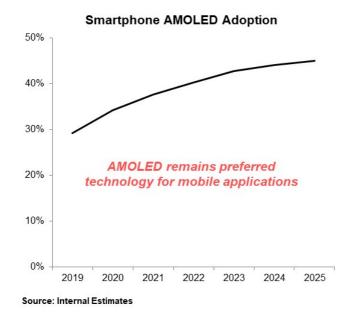
- 27% of total revenue in 2019
 - 18% of IC revenue
 - 52% of FPD revenue
- Growing strong since 2016
 - IC +83% CAGR
 - FPD +59% CAGR

Manufacturing presence in China aims to accelerate growth

- Customer contracts help ramp facilities more quickly
- Investment incentives reduce risk and improve returns
- IC JV enables us to compete more effectively



Leveraging Technology Leadership for Mobile Display AMOLED Adoption



Mobile devices moving from LCD to AMOLED

- Superior visual characteristics
- Lower power consumption
- Enables flexible format
- Preferred for VR/AR devices

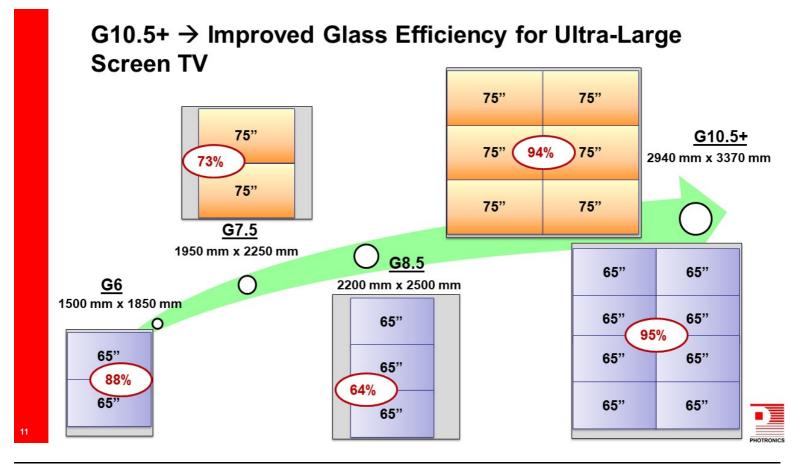
Increasing mask complexity

- More mask layers per set
- Tighter specs on each layer

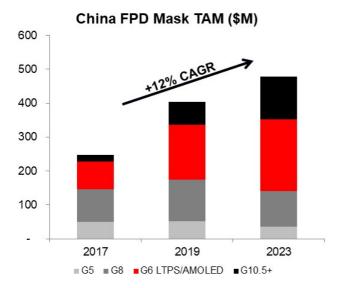
Established technology leadership

- 1st firm with P-800 mask writer
- Produces highest resolution AMOLED masks
- Competitive advantage vs. all merchants and captives





"Made in China 2025" Driving Growth in FPD Market



Source: Internal Estimates

- China represents fastest growing display region
 - 51 fabs in production or under construction
 - Largest LCD display producer (Korea 2nd)
- Photomask opportunities in China are attractive
 - Wide range of display technologies
 - No merchant photomask producer with high-end experience
 - We are aligned with fastest growing sectors: AMOLED & G10.5+



51 China Display Fabs in Production by 2022

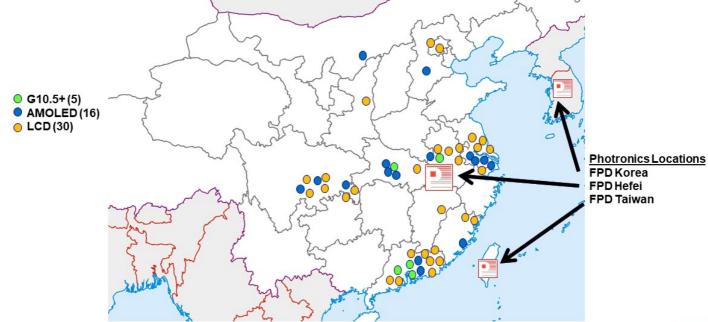


Image from https://commons.wikimedia.org/wiki/File:China-equirect.pn



"Made in China 2025" Driving Growth in IC Market

China IC Market vs. China IC Production Trends



- China represents fastest growing semiconductor region
 - Growing domestic producers
 - Investments by multi-nationals
- More investment needed to meet national targets
 - 2023 forecast is 21%
 - China government target is 40% by 2020, 70% by 2025
- Photomask opportunities in China are attractive
 - Wide range of nodes in logic and memory
 - No strong domestic merchant mask producer



22 New China 12" IC Fabs 2018-2022

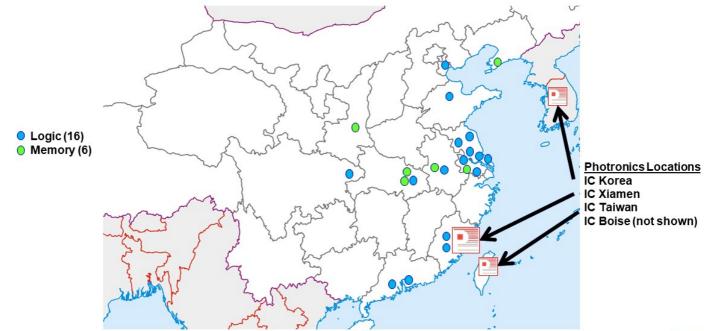


Image from https://commons.wikimedia.org/wiki/File:China-equirect.png



Strategic Priorities to Improve Shareholder Value

- ▶ Top line growth with continued focus on driving costs out
- ▶ Disciplined focus on investments to improve ROIC
- ► Maintain strong balance sheet while returning cash to shareholders
 - Share repurchases
 - Flexibility to invest in other growth opportunities (organic or M&A)



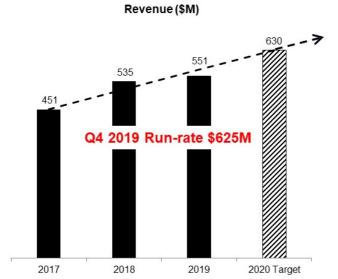
Solid Financial Fundamentals

- ► Powerful operating leverage: target 50%
- ► Strong operating cash flow generator
- ► Disciplined investment approach
- ► Solid balance sheet



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On Our Way to 2020 Target



Key Success Factors

- ▶ "Made in China 2025" new facilities
- ► FPD technology inflections
- ► Repositioned the company
- ► Node migration (logic & memory)
- Growing business with captive producers
- ► IC JV's in China and Taiwan
- Stable mainstream business
- Cross-site collaboration to serve global customers



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Clear Capital Deployment Priorities

Fund organic growth

- Geographic expansion into China
- Investments to maintain technical leadership
- Capacity expansion when reciprocated by customer commitment

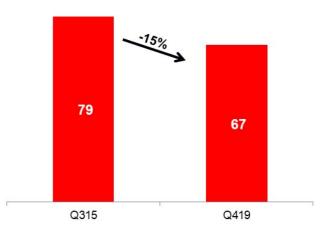
Explore strategic M&A

- Photomask industry IC & FPD
- Adjacencies to increase revenue diversification

Share repurchase

- Repurchased 4.7M shares (\$44.8M) since 2018
- \$89M remaining in current \$100M authorization
- Redeemed \$115M in convertible debt since 2016, eliminating 10.3M potentially dilutive shares

Reducing Diluted Shares (Million Shares)





Financial Summary

- ► Clear path to accelerate profitable growth
- ► Prudent stewardship of balance sheet
- Financial model to grow income faster than revenue
- ► On track to achieve financial targets
 - Revenue \$630M & EPS \$0.80 by 2020
 - Operating margin > 15%
 - Minimum \$100M net cash
 - Improve ROIC no projects accepted below hurdle rate



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Thank you for your interest!

For Additional Information:

R. Troy Dewar, CFA
Vice President, Investor Relations
203.740.5610
tdewar@photronics.com





Appendix



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Q4 2019 Summary

- ► Record revenue, up 13% Q/Q and 8% Y/Y
 - Record FPD revenue driven by mobile displays and Hefei production ramp
 - Record IC revenue as China design activity accelerates
 - Record revenue of products shipped to China, representing 33% of total revenue
- ▶ Operating margin expanded to 13.7% on operating leverage and cost control
- ► Net income attributable to Photronics, Inc. shareholders of \$9.7M (\$0.15/share)
- Cash balance grew to \$207M on strong operating cash flow
- ► Repurchased 1.0M shares for \$11M
- ► China production contributed \$11M to revenue

Successfully repositioned the business; China investments driving long-term, profitable growth



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Income Statement Summary

\$M (except EPS)	Q419	Q319	Q/Q	Q418	<u>Y/Y</u>
Revenue	\$ 156.3	\$ 138.1	13%	\$ 144.7	8%
Gross Profit	\$ 38.2	\$ 30.6	25%	\$ 35.4	8%
Gross Margin	24.4%	22.1%	230 bps	24.5%	(10 bps)
Operating Income	\$ 21.5	\$ 13.4	60%	\$ 18.0	19%
Operating Margin	13.7%	9.7%	400 bps	12.5%	120 bps
Other income (expense)	(\$ 6.1)	(\$ 0.3)	(\$ 5.8)	\$ 2.3	(\$ 8.4)
Income tax provision	\$ 2.3	\$ 3.2	(\$ 0.9)	\$ 3.6	(\$ 1.2)
Minority interest	\$ 3.3	\$ 3.5	(\$ 0.1)	\$ 4.3	(\$ 0.9)
Net Income*	\$ 9.7	\$ 6.3	53%	\$ 12.5	(22%)
Diluted EPS*	\$ 0.15	\$ 0.10	\$ 0.05	\$ 0.18	(\$ 0.03)
Days in quarter	95	91	4	94	1

- Gross and operating margin improved Q/Q on revenue growth, operating leverage and cost controls
- ► China operations were \$4.1M negative impact to operating income
- Other income/expense primarily attributable to FX gain/loss
- Minority interest reflects Taiwan JV gain partially offset by China JV loss

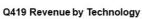


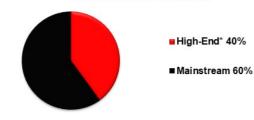
IC Photomask Revenue

<u>\$M</u>	Q419	Q319	Q/Q	Q418	Y/Y
High-End*	\$ 45.0	\$ 38.5	17%	\$ 39.4	14%
Mainstream	\$ 67.6	<u>\$ 61.7</u>	<u>9%</u>	<u>\$ 71.4</u>	(5%)
Total	\$ 112.5	\$ 100.2	12%	\$ 110.9	1%

Total may differ due to rounding

*28nm and smaller





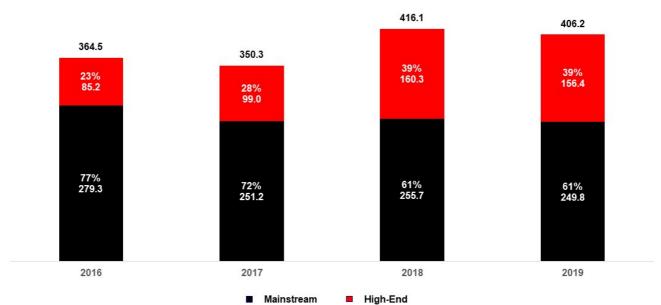
- Revenue grew with increase in broadbased design activity
- China revenue rebounded as firms accelerate product development
 - +72% Q/Q; +32% Y/Y
 - Represents 22% of Q419 IC revenue

Outlook

- Expect stable to improving high-end demand
- Anticipate production ramping in Xiamen
- Potential impact from US-China trade discussions
- Seasonal headwinds



IC Photomask Revenue



High-End: 28nm and smaller; total may differ due to rounding

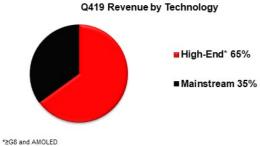


FPD Photomask Revenue

<u>\$M</u>	Q419	Q319	Q/Q	Q418	<u>Y/Y</u>
High-End*	\$ 28.5	\$ 25.9	10%	\$ 22.0	29%
Mainstream	\$ 15.2	<u>\$ 12.0</u>	<u>27%</u>	<u>\$ 11.8</u>	30%
Total	\$ 43.7	\$ 37.9	15%	\$ 33.8	29%

Total may differ due to rounding

0410 Payanua by Tachnology



Record FPD revenue driven by mobile displays and China production ramp, including G10.5+

China revenue

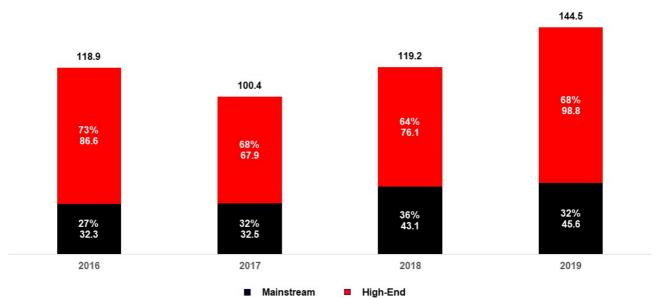
- +32% Q/Q; +118% Y/Y
- Represents 61% of Q419 FPD revenue

Outlook

- Mobile display demand expected to remain high
- LCD industry downturn continues
- Hefei shipments should continue to ramp



FPD Photomask Revenue



High-End: ≥G8 and AMOLED; total may differ due to rounding



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Select Financial Data

<u>\$M</u>	Q419	Q319	Q418
Cash	\$ 207	\$ 197	\$ 329
Debt	\$ 53	\$ 49	\$ 57
Net Cash*	\$ 154	\$ 148	\$ 272
Operating Cash Flow	\$ 48	\$ 26	\$ 44
Capital Expenditures	\$ 17	\$ 20	\$ 28
Share repurchase	\$ 11	-	\$ 16

- Deploying cash balance to fund China investments
- Debt is local China borrowing to finance fixed assets
- ► FY 2019 capex \$177M; anticipate FY 2020 capex ~ \$100M (includes 2019 carryover)
- Repurchased 1.0M shares for \$11M (YTD 2.1M shares for \$22M)
- Balance sheet able to fund planned investments, share repurchases, and strategic M&A opportunities





Total Revenue

