

Pursuant to Rule 425 under the Securities Act of 1933,
as amended, and deemed filed pursuant to Rule 14a-12
under the Securities Exchange Act of 1934, as amended

Subject Company: Ocular Sciences, Inc.
(Commission File No.: 0-22623)

This filing relates to a proposed acquisition by The Cooper Companies, Inc. ("Cooper") of Ocular Sciences, Inc. ("Ocular Sciences") pursuant to the terms of an Agreement and Plan of Merger, dated as of July 28, 2004 (the "Merger Agreement"), by and among Cooper, TCC Acquisition Corp., a wholly owned subsidiary of Cooper, and Ocular Sciences. The Merger Agreement is on file with the Securities and Exchange Commission ("SEC") as an exhibit to the Current Report on Form 8-K filed by Cooper on July 29, 2004, and is incorporated by reference into this filing.

The following is a press release dated September 27, 2004 issued by Cooper announcing the record date and special stockholders' meeting in connection with the proposed Acquisition.

[LETTERHEAD OF THE COOPER COMPANIES]

NEWS RELEASE

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FOR IMMEDIATE RELEASE

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Cooper Companies To Hold Special Stockholders' Meeting November 16

LAKE FOREST, Calif., September 27, 2004 — The Cooper Companies, Inc. (NYSE:COO) said today that it has scheduled a special stockholders' meeting for the purpose of voting on the issuance of shares of Cooper's common stock in the merger with Ocular Sciences, Inc (NASDAQ: OCLR) on November 16, 2004 at the offices of J.P. Morgan Chase Bank, Second Floor Conference Center, 270 Park Avenue, New York, NY beginning at 10:00 a.m. (EST). Stockholders of record as of October 4, 2004 will be entitled to vote their shares at the special meeting.

In addition to approval of the issuance of shares by Cooper's stockholders, completion of the transaction remains subject to customary closing conditions, including approval of the merger by

Information

In connection with Cooper's proposed merger with Ocular Sciences, Cooper has filed with the SEC a registration statement on Form S-4, containing a joint proxy statement/prospectus and other relevant materials. INVESTORS AND SECURITYHOLDERS OF COOPER AND OCULAR SCIENCES ARE URGED TO READ THE PRELIMINARY PROXY STATEMENT/PROSPECTUS REGARDING THE ACQUISITION AND THE DEFINITIVE JOINT PROXY STATEMENT/PROSPECTUS, WHEN IT BECOMES AVAILABLE, AS WELL AS OTHER DOCUMENTS TO BE FILED WITH THE SEC IN CONNECTION WITH THE ACQUISITION OR INCORPORATED BY REFERENCE IN THE PROXY STATEMENT/PROSPECTUS, BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION. Investors will be able to obtain these documents free of charge at the SEC web site www.sec.gov. The definitive joint proxy statement/prospectus and other relevant materials (when they become available) will be mailed to stockholders of Cooper and Ocular Sciences in advance of the special meetings to consider the transaction. In addition, investors and security holders may obtain free copies of the documents filed with the SEC by Cooper by contacting Investor Relations, The Cooper Companies, Inc., 21062 Bake Parkway, Suite 200, Lake Forest, CA 92630, 949-597-4700, ir@coopercos.com. Investors and security holders may obtain free copies of the documents filed with the SEC by Ocular Sciences by contacting EVC Group, Inc, 90 Montgomery Street Suite 1001, San Francisco, CA 94165, 415-896-6820, ocularir@evcgroup.com. Cooper, Ocular Sciences and their respective officers and directors may be deemed to be participants in the solicitation of proxies from their respective stockholders with respect to the transactions contemplated by the proposed merger. A description of the interests of the directors and executive officers of Cooper is set forth in Cooper's proxy statement for its 2004 annual meeting, which was filed with the SEC on February 6, 2004. A description of the interests of the directors and executive officers of Ocular Sciences is set forth in Ocular Sciences' proxy statement for its 2004 annual meeting, which was filed with the SEC on April 22, 2004. Investors and security holders may obtain additional information regarding the interests of such potential participants by reading the preliminary proxy statement/prospectus and the definitive proxy statement/prospectus, when it becomes available, as well as other relevant documents filed with the SEC when they become available.

Corporate Information

The Cooper Companies, Inc. manufactures and markets specialty healthcare products through its CooperVision and CooperSurgical units. Corporate offices are in Lake Forest and Pleasanton, Calif. The World Wide Web address is www.coopercos.com. A toll free interactive telephone system at 1-800-334-1986 provides stock quotes, recent press releases and financial data.

CooperVision manufactures and markets contact lenses and ophthalmic surgery products. Headquartered in Lake Forest, Calif., it manufactures in Huntington Beach, Calif., Rochester, N.Y., Norfolk, Va., Adelaide, Australia, Hamble, England, Madrid, Spain and Toronto. Its Web address is www.coopervision.com.

CooperSurgical manufactures and markets diagnostic products, surgical instruments and accessories to the women's healthcare market. With headquarters and manufacturing facilities in Trumbull, Conn., it also manufactures in Pasadena, Calif., North Normandy, Ill., Fort Atkinson, Wis., Malmo, Sweden, Montreal and Berlin. Its Web address is www.coopersurgical.com.