



December 9, 2021

SeaSpine Orthopedics Corporation  
Aly Alvarez  
Principal Regulatory Affairs Specialist  
5770 Armada Drive  
Carlsbad, California 92008

Re: K213359

Trade/Device Name: SeaSpine WaveForm™ C Interbody System  
Regulation Number: 21 CFR 888.3080  
Regulation Name: Intervertebral Body Fusion Device  
Regulatory Class: Class II  
Product Code: OVE  
Dated: October 8, 2021  
Received: October 12, 2021

Dear Aly Alvarez:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's

requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email ([DICE@fda.hhs.gov](mailto:DICE@fda.hhs.gov)) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Brent Showalter, Ph.D.  
Assistant Director  
DHT6B: Division of Spinal Devices  
OHT6: Office of Orthopedic Devices  
Office of Product Evaluation and Quality  
Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)

K213359

Device Name

WaveForm™ C Interbody System

### Indications for Use (Describe)

The SeaSpine WaveForm™ C Interbody System are interbody fusion devices intended for use in skeletally mature patient with degenerative disc disease (DDD) of the cervical spine (C2-T1) for multiple contiguous levels. DDD is defined as discogenic pain with degeneration of the disc confirmed by history and radiographic studies. These patients should be skeletally mature and have had at least six (6) weeks of non-operative treatment. These devices are to be filled with autograft bone and/or allogenic bone graft composed of cancellous, cortical, and/or corticocancellous bone.

When used as a standalone system, the WaveForm™ C Interbody System, which includes the 2,3,4 hole TruProfile plates and 2-hole No-Profile interfixated spacer, is intended to be used as an adjunct to spinal fusion procedures at multiple contiguous levels of the cervical spine (C2-T1), and must be used with bone screw fixation and locking covers.

When the WaveForm™ C Interbody (excluding 2-hole No-Profile interfixated spacer) is used with supplemental fixation, such as anterior cervical plates, the WaveForm™ C Interbody System is intended to be used as an adjunct to spinal fusion procedures at multiple contiguous levels of the cervical spine (C2-T1).

Type of Use (Select one or both, as applicable)

Prescription Use (Part 21 CFR 801 Subpart D)

Over-The-Counter Use (21 CFR 801 Subpart C)

### CONTINUE ON A SEPARATE PAGE IF NEEDED.

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## 510(k) Summary

### K213359

#### Contact Details

Applicant Name: SeaSpine Orthopedics Corporation

Address: 5770 Armada Drive, Carlsbad CA  
Phone number: (760) 421-2793 (Hong)  
Fax number: (760) 683-6874

Contact Person: Hong Phan, Principal Regulatory Affairs Specialist

Date Prepared: October 08, 2021

#### Device Name

Trade Name: SeaSpine WaveForm™ C Interbody System

Common Name: Intervertebral Body Fusion Device

Classification Name: Intervertebral fusion device with bone graft, cervical (21 CFR 888.3080)  
Class: II  
Product Code: OVE

#### Legally Marketed Predicate Devices

510(k) Number	Product Code	Trade Name	Manufacturer
<b>Primary Predicate Device</b>			
K201073	OVE, ODP	<i>SeaSpine WaveForm™ C Interbody System</i>	SeaSpine Orthopedics Corporation
<b>Additional Predicate Device</b>			
K161081	OVE	<i>SeaSpine Shoreline ACS System</i>	SeaSpine Orthopedics Corporation
K183083	OVE, ODP	<i>Shoreline Cervical Interbody RT System</i>	SeaSpine Orthopedics Corporation

510(k) Number	Product Code	Trade Name	Manufacturer
K172676	ODP	<i>NuVasive Modulus-C Interbody</i>	NuVasive, Incorporated
K192582	OVE	<i>NuVasive CoRoent Small Interlock System</i>	NuVasive, Incorporated
K172064	MAX	<i>Ti-Diagon Oblique TLIF</i>	Camber Spine Technologies
K211258	MAX, ODP, OVD, OVE	<i>Endoskeleton TC Interbody System, Endoskeleton TCS Interbody System, Endoskeleton TA Interbody System, Endoskeleton TAS &amp; TAS Hyp Interbody System, Endoskeleton TL Interbody System, Endoskeleton TL Hyp. Interbody System, Endoskeleton TO Interbody System, Endoskeleton TT Interbody System</i>	Medtronic Sofamor Danek USA, Inc.

### Device Description

The SeaSpine WaveForm™ C Interbody System is an additively manufactured implant comprised of cervical spacers. Each spacer consists of central graft windows which are packed with autogenous bone graft and/or allogenic bone graft, composed of cancellous, cortical and/or corticocancellous bone prior to implantation. The WaveForm™ C Interbody System offers spacers in low profile (TruProfile) and No-Profile versions in various lengths and heights and are manufactured from Ti-6Al-4V ELI titanium alloy per ASTM F136 and ASTM F3001.

The WaveForm™ C Interbody System can be used with supplemental fixation, such as an anterior plate or as a standalone construct to be used with bone screw fixation and locking cover. The instruments included with the system facilitate the placement and adjustment of the interbody spacer, and removal if necessary. The instruments are placed in system-specific trays for storage, protection, and organization prior to and during the steam sterilization process.

### Indications for Use

The SeaSpine WaveForm™ C Interbody System are interbody fusion devices intended for use in skeletally mature patient with degenerative disc disease (DDD) of the cervical spine (C2-T1) for multiple contiguous levels. DDD is defined as discogenic pain with degeneration of the disc confirmed by history and radiographic studies. These patients should be skeletally mature and have had at least six (6) weeks of non-operative treatment. These devices are to be filled with autograft bone and/or allogenic bone graft composed of cancellous, cortical, and/or corticocancellous bone.

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### **Summary of Technological Characteristics**

The WaveForm™ C Interbody System and predicate devices have the same operational principle; they act as a disc spacer and hold bone graft. The WaveForm™ C Interbody System is substantially equivalent to the cited predicate devices in areas including intended use/indications for use, technological characteristics (operating principle, design, materials, sterility, manufacturing, etc.) and performance (mechanical safety).

The subject and predicate devices are based on the following similar technological elements:

- Implant Spacer Heights
- Spacer Footprints
- Spacer Lordotic Angles
- Screw Sizes and Lengths

### **Non-Clinical Testing**

The WaveForm™ C Interbody System has been testing in accordance with requirements outlined in ASTM F2077, F2267, and F1877.

### **Conclusions**

The submitted data demonstrates that the SeaSpine WaveForm™ C Interbody System performs at least as safely and effectively as the cited legally marketed predicate.