WHAT IS CLAIMED IS:

1. A system comprising:

a footplate, the footplate shaped to mate with a surface of an eye, the footplate including one or more apertures;

one or more optical waveguides coupled to the footplate and positioned to transmit laser light through the one or more apertures and expose at least a pars plana of the eye to laser light when the footplate is mated with the surface of the eye; and

a laser system coupled to the one or more optical waveguides to emit laser light into the one or more optical waveguides for transmission to the eye through the one or more apertures.

2. The system of claim 1, wherein the footplate is shaped to mate with a sclera of the eye at or adjacent to a corneal limbus of the eye.

3. The system of claim 1, wherein one or more dimensions of the footplate and/or a position of one or more apertures within the footplate are configured to position at least one aperture of the footplate above the pars plana when the footplate is mated to the surface of the eye.

4. The system of claim 1, wherein one or more dimensions of the footplate and/or a position of the one or more apertures within the footplate are configured to position at least one aperture of the footplate above the pars plana and at least one aperture of the footplate above a pars plicata of the eye when the footplate is mated to the surface of the eye.

5. The system of claim 1, wherein one or more dimensions of the footplate and/or a position of the one or more apertures within the footplate are configured to position at least one aperture of the footplate above the pars plana and at least one aperture of the footplate above a trabecular meshwork of the eye when the footplate is mated to the surface of the eye.

6. The system of claim 1, wherein one or more dimensions of the footplate and/or a position of the one or more apertures within the footplate are configured to position at least one aperture of the footplate above a pars plicata of the eye and at least one

aperture of the footplate above a trabecular meshwork of the eye when the footplate is mated to the surface of the eye.

7. The system of claim 1, wherein one or more dimensions of the footplate and/or a position of the one or more apertures within the footplate are configured to position a plurality of apertures of the footplate above the pars plana or above a pars plicata of the eye when the footplate is mated to the surface of the eye.

8. The system of claim 1, wherein the footplate is adapted to move tangentially or circumferentially along the surface of the eye, parallel to the pars plana, to sequentially expose at least the pars plana in a plurality of quadrants of the eye to laser light.

9. The system of claim 1, wherein the footplate is adapted to move tangentially or circumferentially along the surface of the eye, parallel to a ciliary sulcus of the eye, to sequentially expose at least the ciliary sulcus in a plurality of quadrants of the eye to laser light.

10. The system of claim 1, wherein tangential or circumferential motion of the footplate corresponds to a translation along the surface of the eye about a pupil of the eye at a fixed radial position.

11. The system of claim 1, wherein the footplate is adapted to move radially along the surface of the eye to expose the pars plana and a pars plicata of the eye to laser light.

12. The system of claim 1, wherein the footplate is adapted to move radially along the surface of the eye to expose the pars plana, a pars plicata of the eye, and a trabecular meshwork of the eye to laser light.

13. The system of claim 1, wherein radial motion of the footplate corresponds to a translation along the surface of the eye toward or away from a pupil of the eye at a fixed lateral position.

14. The system of claim 1, wherein the footplate is adapted to move both radially and tangentially along the surface of the eye to expose the pars plana and a trabecular meshwork of the eye in a plurality of quadrants of the eye to laser light.

15. The system of claim 1, wherein the footplate is adapted to move radially and tangentially along the surface of the eye to expose the pars plana, a pars plicata of the eye, and a trabecular meshwork of the eye to laser light.

16. The system of claim 1, wherein the footplate is adapted to move both radially and tangentially in a zig-zag path along the surface of the eye.

17. The system of claim 1, further comprising a control system configured to control an output power of laser light emitted onto the eye.

18. The system of claim 17, wherein the control system is configured to limit operation of the laser system to a fixed number of treatments to maintain a treatment power of the laser light above a threshold level.